APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Dataset Description

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<td>This dataset contains resulting output from SAS proc contents for all SCDM tables, including table, variable, and engine/host attributes. All variables present, including any non-SCDM variables, will be included in the output.</td>
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### Variable Attributes

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
| **ENCRYPT**  | Encryption Routine | 8  | Char | Encryption Routine | SCDM table metadata | SAS proc contents procedure performed on all DP SCDM tables | 39 |
| **POINTOBS** | Point to Observations | 3  | Char | Point to Observations | SCDM table metadata | SAS proc contents procedure performed on all DP SCDM tables | 40 |
| **GENMAX**   | Maximum Number of Generations | 8  | Num | Maximum Number of | SCDM table metadata | SAS proc contents procedure performed on all DP SCDM tables | 41 |
| **GENNUM**   | Generation Number     | 8  | Num | Generation Number   | SCDM table metadata | SAS proc contents procedure performed on all DP SCDM tables | 42 |
| **GENNEXT**  | Next Generation Number | 8  | Num | Next Generation Num | SCDM table metadata | SAS proc contents procedure performed on all DP SCDM tables | 43 |
| **TRANSCOD** | Character Variables Transcoded | 3  | Char | Character Variables | SCDM table metadata | SAS proc contents procedure performed on all DP SCDM tables | 44 |
## Example Dataset

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
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<td></td>
</tr>
<tr>
<td>.</td>
<td>.</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>0</td>
<td>.</td>
<td>.</td>
<td>YES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>.</td>
<td>.</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>0</td>
<td>.</td>
<td>.</td>
<td>YES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>.</td>
<td>.</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>0</td>
<td>.</td>
<td>.</td>
<td>YES</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>all_l1_l2_flags</td>
<td>This dataset contains one record per unique FlagID for Level 1 or Level 2 non-passing data checks and associated frequency.</td>
</tr>
</tbody>
</table>

### Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>FlagID</td>
<td>Flag ID used by SOC to identify specific error checks across all SCDM tables</td>
<td>21</td>
<td>Char</td>
<td></td>
<td></td>
<td>inputfiles.lkp_all_flags.flagid</td>
<td>NA</td>
<td>3</td>
</tr>
<tr>
<td>AbortYN</td>
<td>Indicates QA package abort status (Y or N) for each FlagID</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td>inputfiles.lkp_all_flags.abortyn</td>
<td>NA</td>
<td>4</td>
</tr>
<tr>
<td>FlagType</td>
<td>FlagType</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>inputfiles.lkp_all_flags.flagtype</td>
<td>NA</td>
<td>5</td>
</tr>
<tr>
<td>Flag_Descr</td>
<td>Description of flag</td>
<td>255</td>
<td>Char</td>
<td></td>
<td></td>
<td>inputfiles.lkp_all_flags.flag_descr</td>
<td>NA</td>
<td>6</td>
</tr>
<tr>
<td>count</td>
<td>Count of flagged records</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
</tbody>
</table>
### Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>FlagID</th>
<th>AbortYN</th>
<th>FlagType</th>
<th>Flag_Descr</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>DEM-ENR_2_02_00-0_205</td>
<td>N</td>
<td>Warn</td>
<td>Birth_Date value occurs after Enr_Start value</td>
<td>5</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DEM_1_06_00-0_123</td>
<td>N</td>
<td>Warn</td>
<td>Zip value length does not conform to specifications</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DEM_2_07_00-0_227</td>
<td>N</td>
<td>Warn</td>
<td>Zip_Date value occurs before Birth_Date value</td>
<td>12</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA-ENC_2_04_00-0_201</td>
<td>N</td>
<td>Warn</td>
<td>table</td>
<td>5</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA-ENC_2_04_00-0_202</td>
<td>N</td>
<td>Warn</td>
<td>table</td>
<td>55</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA-ENR_2_01_00-0_202</td>
<td>N</td>
<td>Warn</td>
<td>PatID value present in ENR table, but not in the DIA table</td>
<td>15</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA_1_02_00-0_125</td>
<td>N</td>
<td>Warn</td>
<td>EncounterID value contains special characters (excluding underscore, period, or hyphen)</td>
<td>4,038</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA_1_04_00-0_125</td>
<td>N</td>
<td>Warn</td>
<td>Provider value contains special characters (excluding underscore, period, or hyphen)</td>
<td>24</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA_1_08_00-0_111</td>
<td>N</td>
<td>Warn</td>
<td>OrigDX variable is not populated</td>
<td>99,999</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIS-ENR_2_01_00-0_202</td>
<td>N</td>
<td>Warn</td>
<td>PatID value present in ENR table, but not in the DIS table</td>
<td>29</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIS-ENR_2_02_00-0_200</td>
<td>N</td>
<td>Warn</td>
<td>All PatID test date values occur outside of an active enrollment period (count=Unique PatID)</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIS_1_04_00-0_124</td>
<td>N</td>
<td>Warn</td>
<td>RxSup contains an unexpected value of zero (0)</td>
<td>11</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIS_1_05_00-0_124</td>
<td>N</td>
<td>Warn</td>
<td>RxAmt contains an unexpected value of zero (0)</td>
<td>11</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DTH-ENC_2_02_00-0_206</td>
<td>N</td>
<td>Warn</td>
<td>DeathDt value occurs before ADate value</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DTH-ENR_2_01_00-0_202</td>
<td>N</td>
<td>Warn</td>
<td>PatID value present in ENR table, but not in the DTH table</td>
<td>48</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DTH-ENR_2_02_00-0_206</td>
<td>N</td>
<td>Warn</td>
<td>DeathDt value occurs before Enr_Start value</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ENC-ENR_2_01_00-0_202</td>
<td>N</td>
<td>Warn</td>
<td>PatID value present in ENR table, but not in the ENC table</td>
<td>3</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ENC-ENR_2_03_00-0_200</td>
<td>N</td>
<td>Warn</td>
<td>All PatID test date values occur outside of an active enrollment period (count=Unique PatID)</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ENC_1_02_00-0_125</td>
<td>N</td>
<td>Warn</td>
<td>EncounterID value contains special characters (excluding underscore, period, or hyphen)</td>
<td>3,335</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ENC_1_05_00-0_120</td>
<td>N</td>
<td>Warn</td>
<td>Provider variable contains a null value</td>
<td>202</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ENC_1_06_00-0_120</td>
<td>N</td>
<td>Warn</td>
<td>Facility_Location variable contains a null value</td>
<td>3,218</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ENC_1_08_00-0_120</td>
<td>N</td>
<td>Warn</td>
<td>Facility_Code variable contains a null value</td>
<td>3,218</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ENC_1_11_00-0_111</td>
<td>N</td>
<td>Warn</td>
<td>DRG variable is not populated</td>
<td>99,999</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ENC_1_12_00-0_111</td>
<td>N</td>
<td>Warn</td>
<td>DRG_Type variable is not populated</td>
<td>99,999</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>LAB-ENR_2_01_00-0_200</td>
<td>N</td>
<td>Warn</td>
<td>All PatID test date values occur outside of an active enrollment period (count=Unique PatID)</td>
<td>1</td>
</tr>
</tbody>
</table>
## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>all_l1_record_count</td>
<td>This dataset contains one record per SCDM table variable and includes frequency and proportion of null values.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>TabID</td>
<td>3 character abbreviation for source SCDM table</td>
<td>3</td>
<td>Char</td>
<td></td>
<td></td>
<td>inputfiles.control_flow.module</td>
<td>Where execute_flag=Y and cc_table ne X</td>
<td>3</td>
</tr>
<tr>
<td>VarID</td>
<td>2 character variable identifier. Used in combination with TabID to represent an unique SCDM variable.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>inputfiles.lkp_all_l1.varid</td>
<td>NA</td>
<td>4</td>
</tr>
<tr>
<td>Variable</td>
<td>Variable name</td>
<td>21</td>
<td>Char</td>
<td></td>
<td></td>
<td>SCDM table</td>
<td>NA</td>
<td>5</td>
</tr>
<tr>
<td>count</td>
<td>Count of populated records</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>NA</td>
<td>SCDM table</td>
<td>NA</td>
<td>6</td>
</tr>
<tr>
<td>count_null</td>
<td>Count of null records (blank or missing)</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>Null Record Count</td>
<td>SCDM table</td>
<td>NA</td>
<td>7</td>
</tr>
<tr>
<td>pct_null</td>
<td>Proportion of null value count to total number of record count by variable and table</td>
<td>8</td>
<td>Num</td>
<td>8.2</td>
<td>Percent Null</td>
<td>SCDM table</td>
<td>Count_null/total record count*100</td>
<td>8</td>
</tr>
</tbody>
</table>
## Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>TabID</th>
<th>VarID</th>
<th>Variable</th>
<th>count</th>
<th>count_null</th>
<th>pct_null</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>COD</td>
<td>01</td>
<td>PatID</td>
<td>2</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>COD</td>
<td>02</td>
<td>CodeType</td>
<td>2</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>COD</td>
<td>03</td>
<td>Source</td>
<td>2</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>COD</td>
<td>04</td>
<td>Confidence</td>
<td>2</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>COD</td>
<td>05</td>
<td>CauseType</td>
<td>2</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>COD</td>
<td>06</td>
<td>PatID</td>
<td>50</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DEM</td>
<td>02</td>
<td>Birth_Date</td>
<td>50</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DEM</td>
<td>03</td>
<td>Source</td>
<td>50</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DEM</td>
<td>04</td>
<td>Hispanic</td>
<td>50</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DEM</td>
<td>05</td>
<td>Race</td>
<td>50</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DEM</td>
<td>06</td>
<td>Zip</td>
<td>49</td>
<td>1</td>
<td>2.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DEM</td>
<td>07</td>
<td>Zip_Date</td>
<td>50</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA</td>
<td>01</td>
<td>PatID</td>
<td>4,038</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA</td>
<td>02</td>
<td>EncounterID</td>
<td>4,038</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA</td>
<td>03</td>
<td>ADate</td>
<td>4,038</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA</td>
<td>04</td>
<td>Provider</td>
<td>4,038</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA</td>
<td>05</td>
<td>EncType</td>
<td>4,038</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA</td>
<td>06</td>
<td>DX</td>
<td>4,038</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA</td>
<td>07</td>
<td>DX_Codetype</td>
<td>4,038</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA</td>
<td>08</td>
<td>OrigDX</td>
<td>0</td>
<td>4,038</td>
<td>100.00</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA</td>
<td>09</td>
<td>PDX</td>
<td>215</td>
<td>3,823</td>
<td>94.68</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA</td>
<td>10</td>
<td>Padmit</td>
<td>4,038</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>DIS</td>
<td>DIS</td>
<td>01</td>
<td>PatID</td>
<td>1,972</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>MS</td>
<td>DIS</td>
<td>DIS</td>
<td>02</td>
<td>RxDate</td>
<td>1,972</td>
<td>0</td>
<td>0.00</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
**Dataset Description**

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>all_l1_scdm_comp</td>
<td>This dataset contains a comparison of expected SCDM versus actual observed variable attributes by table.</td>
</tr>
</tbody>
</table>

**Variable Attributes**

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>TabID</td>
<td>3 character abbreviation for source SCDM table</td>
<td>3</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Where execute_flag=Y and cc_table ne X</td>
<td>3</td>
</tr>
<tr>
<td>var</td>
<td>Variable name</td>
<td>32</td>
<td>Char</td>
<td>Variable Name</td>
<td></td>
<td></td>
<td>Coalesce(variable,name)</td>
<td>4</td>
</tr>
<tr>
<td>VarID</td>
<td>SCDM variable ID assigned by SOC</td>
<td>2</td>
<td>Char</td>
<td>$2. MSCDM Variable ID</td>
<td></td>
<td></td>
<td>NA</td>
<td>5</td>
</tr>
<tr>
<td>MS_var</td>
<td>YN indicator for variable that is expected as per SCDM</td>
<td>1</td>
<td>Char</td>
<td>Variable expected?</td>
<td></td>
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<td>Ms_var='Y' if variable is in lookup table</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Example Dataset

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<td>This dataset contains frequency of distinct observed value lengths stratified by table and cross-table variable (e.g. PatID).</td>
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## Variable Attributes

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<th>DERIVATION</th>
<th>ORDER</th>
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<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
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<td>Where execute_flag=Y and cc_table ne X</td>
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<td>Variable where CrossTab=X</td>
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**Dataset Description**

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**Variable Attributes**

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<th>ORDER</th>
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<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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<td>Char</td>
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Dataset Description

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<td>This dataset contains frequency of distinct EncounterID values stratified by binary indicator of presence by each utilization table.</td>
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Variable Attributes

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<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
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<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
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<td>Char</td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>ENC</td>
<td>Binary indicator for presence of EncounterID value in Encounter table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>ENC.patid</td>
<td>1=True, 0=False</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DIA</td>
<td>Binary indicator for presence of EncounterID value in Diagnosis table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>DIA.patid</td>
<td>1=True, 0=False</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>PRO</td>
<td>Binary indicator for presence of EncounterID value in Procedure table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>PRO.patid</td>
<td>1=True, 0=False</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>count</td>
<td>Count of unique EncounterID values per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>ENC</th>
<th>DIA</th>
<th>PRO</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>235</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>919</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>19</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2,162</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
**Dataset Description**

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>all_l2_patid_match</td>
<td>This dataset contains frequency of distinct PatID values stratified by binary indicator of presence by each SCDM table.</td>
</tr>
</tbody>
</table>

**Variable Attributes**

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>ENR</td>
<td>Binary indicator for presence of PatID value in Enrollment table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td>ENR.patid</td>
<td>1=True, 0=False</td>
<td>3</td>
</tr>
<tr>
<td>COD</td>
<td>Binary indicator for presence of PatID value in Cause of Death table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td>COD.patid</td>
<td>1=True, 0=False</td>
<td>4</td>
</tr>
<tr>
<td>DEM</td>
<td>Binary indicator for presence of PatID value in Demographic table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td>DEM.patid</td>
<td>1=True, 0=False</td>
<td>5</td>
</tr>
<tr>
<td>DIA</td>
<td>Binary indicator for presence of PatID value in Diagnosis table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td>DIA.patid</td>
<td>1=True, 0=False</td>
<td>6</td>
</tr>
<tr>
<td>DIS</td>
<td>Binary indicator for presence of PatID value in Dispensing table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td>DIS.patid</td>
<td>1=True, 0=False</td>
<td>7</td>
</tr>
<tr>
<td>DTH</td>
<td>Binary indicator for presence of PatID value in Death table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td>DTH.patid</td>
<td>1=True, 0=False</td>
<td>8</td>
</tr>
<tr>
<td>ENC</td>
<td>Binary indicator for presence of PatID value in Encounter table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td>ENC.patid</td>
<td>1=True, 0=False</td>
<td>9</td>
</tr>
<tr>
<td>LAB</td>
<td>Binary indicator for presence of PatID value in Laboratory Results table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td>LAB.patid</td>
<td>1=True, 0=False</td>
<td>10</td>
</tr>
<tr>
<td>PRO</td>
<td>Binary indicator for presence of PatID value in Procedure table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td>PRO.patid</td>
<td>1=True, 0=False</td>
<td>11</td>
</tr>
<tr>
<td>count</td>
<td>Count of unique PatID values per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>12</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>ENR</th>
<th>COD</th>
<th>DEM</th>
<th>DIA</th>
<th>DIS</th>
<th>DTH</th>
<th>ENC</th>
<th>LAB</th>
<th>PRO</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>19</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”**
Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>all_l2_provider_match</td>
<td>This dataset contains frequency of distinct Provider values stratified by binary indicator of presence by each utilization table.</td>
</tr>
</tbody>
</table>

Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>ENC</td>
<td>Binary indicator for presence of Provider value in Encounter table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>ENC.provider</td>
<td>1=True, 0=False</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DIA</td>
<td>Binary indicator for presence of Provider value in Diagnosis table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>DIA.provider</td>
<td>1=True, 0=False</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>PRO</td>
<td>Binary indicator for presence of Provider value in Procedure table</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>PRO.provider</td>
<td>1=True, 0=False</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>count</td>
<td>Count of unique Provider values per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>ENC</th>
<th>DIA</th>
<th>PRO</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>49</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>308</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>all_I3_dates_dist</td>
<td>This dataset contains one row per SCDM table date variable with date value distribution statistics.</td>
</tr>
</tbody>
</table>

### Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>TabID</td>
<td>3 character abbreviation for source SCDM table</td>
<td>3</td>
<td>Char</td>
<td></td>
<td></td>
<td>inputfiles.control_flow.module</td>
<td>Where execute_flag=Y and cc_table ne X</td>
<td>3</td>
</tr>
<tr>
<td>Variable</td>
<td>Date variable name</td>
<td>12</td>
<td>Char</td>
<td></td>
<td></td>
<td>(TABLE).{date variable}</td>
<td>NA</td>
<td>4</td>
</tr>
<tr>
<td>N</td>
<td>Frequency of unique date values</td>
<td>8</td>
<td>Num</td>
<td>BEST4.</td>
<td>(TABLE).{date variable}</td>
<td></td>
<td>SAS proc means procedure</td>
<td>5</td>
</tr>
<tr>
<td>Min</td>
<td>Minimum date value</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10.</td>
<td>Minimum</td>
<td>(TABLE).{date variable}</td>
<td>SAS proc means procedure</td>
<td>6</td>
</tr>
<tr>
<td>P1</td>
<td>1st percentile value for date variable</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10.</td>
<td>1st Pctl</td>
<td>(TABLE).{date variable}</td>
<td>Value as calculated by SAS Proc Means</td>
<td>7</td>
</tr>
<tr>
<td>P5</td>
<td>5th percentile value for date variable</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10.</td>
<td>5th Pctl</td>
<td>(TABLE).{date variable}</td>
<td>SAS proc means procedure</td>
<td>8</td>
</tr>
<tr>
<td>P25</td>
<td>25th percentile value for date variable</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10.</td>
<td>25th Pctl</td>
<td>(TABLE).{date variable}</td>
<td>SAS proc means procedure</td>
<td>9</td>
</tr>
<tr>
<td>Median</td>
<td>Median date value</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10.</td>
<td></td>
<td>(TABLE).{date variable}</td>
<td>SAS proc means procedure</td>
<td>10</td>
</tr>
<tr>
<td>P75</td>
<td>75th percentile value for date variable</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10.</td>
<td>75th Pctl</td>
<td>(TABLE).{date variable}</td>
<td>SAS proc means procedure</td>
<td>11</td>
</tr>
<tr>
<td>P95</td>
<td>95th percentile value for date variable</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10.</td>
<td>95th Pctl</td>
<td>(TABLE).{date variable}</td>
<td>SAS proc means procedure</td>
<td>12</td>
</tr>
<tr>
<td>P99</td>
<td>99th percentile value for date variable</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10.</td>
<td>99th Pctl</td>
<td>(TABLE).{date variable}</td>
<td>SAS proc means procedure</td>
<td>13</td>
</tr>
<tr>
<td>Max</td>
<td>Maximum date value</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10.</td>
<td>Maximum</td>
<td>(TABLE).{date variable}</td>
<td>Value as calculated by SAS Proc Means</td>
<td>14</td>
</tr>
</tbody>
</table>
### Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>TabID</th>
<th>Variable</th>
<th>N</th>
<th>Min</th>
<th>P1</th>
<th>P5</th>
<th>P25</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>ENC</td>
<td>ADATE</td>
<td>1147</td>
<td>2004-07-01</td>
<td>2004-07-12</td>
<td>2004-09-10</td>
<td>2005-06-17</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ENR</td>
<td>ENR_END</td>
<td>35</td>
<td>2004-08-31</td>
<td>2004-08-31</td>
<td>2005-04-30</td>
<td>2006-12-31</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
<table>
<thead>
<tr>
<th>Median</th>
<th>P75</th>
<th>P95</th>
<th>P99</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007-03-31</td>
<td>2008-02-25</td>
<td>2009-05-10</td>
<td>2009-08-06</td>
<td>2009-08-06</td>
</tr>
</tbody>
</table>
**Dataset Description**

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>all_l3_summary</td>
<td>This dataset contains one row per SCDM table and summarizes key table and variable data.</td>
</tr>
</tbody>
</table>

**Variable Attributes**

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>TabID</td>
<td>3 character abbreviation for source SCDM table</td>
<td>3</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>inputfiles.control_flow</td>
<td>3</td>
</tr>
<tr>
<td>MemType</td>
<td>SAS Member type (either data or view)</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>SAS metadata</td>
<td>4</td>
</tr>
<tr>
<td>AllRec</td>
<td>Total record count per table</td>
<td>8</td>
<td>Num</td>
<td>COMMA10.</td>
<td></td>
<td></td>
<td>dplocal.l1_cont_{tabid}.</td>
<td>5</td>
</tr>
<tr>
<td>DupRec</td>
<td>Number of duplicate records by key values by table</td>
<td>8</td>
<td>Num</td>
<td>COMMA10.</td>
<td></td>
<td></td>
<td>{TABLE}.{key variables}</td>
<td>6</td>
</tr>
<tr>
<td>patid</td>
<td>Count of unique PatID values</td>
<td>8</td>
<td>Num</td>
<td>COMMA10.</td>
<td></td>
<td></td>
<td>{TABLE}.patid</td>
<td>7</td>
</tr>
<tr>
<td>encounterid</td>
<td>Number of unique EncounterID values by table</td>
<td>8</td>
<td>Num</td>
<td>COMMA10.</td>
<td></td>
<td></td>
<td>{TABLE}.encounterid</td>
<td>8</td>
</tr>
<tr>
<td>provider</td>
<td>Count of unique Provider values per table</td>
<td>8</td>
<td>Num</td>
<td>COMMA10.</td>
<td></td>
<td></td>
<td>{TABLE}.provider</td>
<td>9</td>
</tr>
<tr>
<td>MinDate</td>
<td>Derived minimum date of data completeness</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10.</td>
<td></td>
<td></td>
<td>msoc.minmax_dates.dp_mindate</td>
<td>10</td>
</tr>
<tr>
<td>maxDate</td>
<td>Derived maximum date of data completeness</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10.</td>
<td></td>
<td></td>
<td>msoc.minmax_dates.dp_maxdate</td>
<td>11</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>TabID</th>
<th>MemType</th>
<th>AllRec</th>
<th>DupRec</th>
<th>patid</th>
<th>encounterid</th>
<th>provider</th>
<th>MinDate</th>
<th>maxDate</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>COD</td>
<td>data</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>.</td>
<td>.</td>
<td>2004-07-01</td>
<td>2009-06-30</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DEM</td>
<td>data</td>
<td>50</td>
<td>0</td>
<td>50</td>
<td>.</td>
<td>.</td>
<td>2004-07-01</td>
<td>2009-06-30</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DIA</td>
<td>data</td>
<td>4,038</td>
<td>0</td>
<td>35</td>
<td>2,190</td>
<td>323</td>
<td>2004-07-01</td>
<td>2009-06-30</td>
</tr>
<tr>
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<td>OC</td>
<td>DIS</td>
<td>data</td>
<td>1,972</td>
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<td>21</td>
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<td>2004-07-01</td>
<td>2009-06-30</td>
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<tr>
<td>MS</td>
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<td>DTH</td>
<td>data</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>.</td>
<td>.</td>
<td>2007-01-01</td>
<td>2007-09-30</td>
</tr>
<tr>
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<td>OC</td>
<td>ENC</td>
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<td>3,335</td>
<td>0</td>
<td>47</td>
<td>3,335</td>
<td>373</td>
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<td>2009-06-30</td>
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<td>OC</td>
<td>ENR</td>
<td>data</td>
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<td>2009-06-30</td>
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<tr>
<td>MS</td>
<td>OC</td>
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<td>data</td>
<td>405</td>
<td>.</td>
<td>1</td>
<td>.</td>
<td>.</td>
<td>2006-02-01</td>
<td>2009-06-30</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>PRO</td>
<td>data</td>
<td>4,640</td>
<td>0</td>
<td>44</td>
<td>3,087</td>
<td>361</td>
<td>2004-07-01</td>
<td>2009-06-30</td>
</tr>
</tbody>
</table>
### Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>alltable_signature</td>
<td>This metadata file contains summarized request-level metadata and basic benchmarking statistics after all modules have completed.</td>
</tr>
</tbody>
</table>

### Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable</td>
<td>Metadata Variable</td>
<td>16</td>
<td>Char</td>
<td>Metadata Variable</td>
<td>See functional specs</td>
<td>NA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Value</td>
<td>Metadata Value</td>
<td>36</td>
<td>Char</td>
<td>See functional specs</td>
<td>NA</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Example Dataset

<table>
<thead>
<tr>
<th>Variable</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>MS</td>
</tr>
<tr>
<td>SiteID</td>
<td>OC</td>
</tr>
<tr>
<td>MSReqID</td>
<td>soc_qar_v410_msoc_b4</td>
</tr>
<tr>
<td>MSProjID</td>
<td>soc</td>
</tr>
<tr>
<td>MSWPType</td>
<td>qar</td>
</tr>
<tr>
<td>MSWPID</td>
<td>v410</td>
</tr>
<tr>
<td>MSDPID</td>
<td>msoc</td>
</tr>
<tr>
<td>MSVerID</td>
<td>b4</td>
</tr>
<tr>
<td>QAVer</td>
<td>4.1.0</td>
</tr>
<tr>
<td>SCDMVer</td>
<td>6.0.2</td>
</tr>
<tr>
<td>OSAbbr</td>
<td>WIN</td>
</tr>
<tr>
<td>OSName</td>
<td>X64_7PRO</td>
</tr>
<tr>
<td>SASVersion</td>
<td>9.4</td>
</tr>
<tr>
<td>SASVersionLong</td>
<td>9.04.01M4P110916</td>
</tr>
<tr>
<td>RunType</td>
<td>FORE</td>
</tr>
<tr>
<td>NCPU</td>
<td>4</td>
</tr>
<tr>
<td>TotalRequestTime</td>
<td>0 h 0 m 58 s</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
### Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>cod_l3_catvars</td>
<td>This dataset contains frequency of records stratified by Codetype, Causetype, Source, and Confidence values.</td>
</tr>
</tbody>
</table>

### Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CAUSETYPE</td>
<td>Observed CauseType values</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>COD.causetype</td>
<td>NA</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SOURCE</td>
<td>Observed Source values</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>COD.source</td>
<td>NA</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CONFIDENCE</td>
<td>Observed Confidence values</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>COD.confidence</td>
<td>NA</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>count</td>
<td>Record count per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>COMMA15.</td>
<td>NA</td>
<td>6</td>
<td></td>
</tr>
</tbody>
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### Example Dataset

<table>
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<tr>
<th>DPID</th>
<th>SiteID</th>
<th>CAUSETYPE</th>
<th>SOURCE</th>
<th>CONFIDENCE</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>O</td>
<td>L</td>
<td>P</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>O</td>
<td>N</td>
<td>P</td>
<td>1</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>control_flow_3</td>
<td>This metadata file is a modified version of the &quot;Control_flow&quot; input file, limited to DP-specific SCDM tables to evaluate.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>module</td>
<td>Abbreviated module identification.</td>
<td>5</td>
<td>Char</td>
<td>$5.</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>execute_flag</td>
<td>Module execution flag/indicator (YN)</td>
<td>1</td>
<td>Char</td>
<td>$1.</td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>sascode</td>
<td>Name of each .sas program to be executed</td>
<td>38</td>
<td>Char</td>
<td>$38.</td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>cc_table</td>
<td>Name of CC table variables, if applicable</td>
<td>10</td>
<td>Char</td>
<td>$10.</td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>seqno</td>
<td>Order of module execution</td>
<td>8</td>
<td>Num</td>
<td>BEST.</td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>module_cat</td>
<td>Module category/type (Core, Labs, Level 1, Level 2, Level 3)</td>
<td>10</td>
<td>Char</td>
<td>$10.</td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>module_util</td>
<td>Utilization table indicator (YN)</td>
<td>1</td>
<td>Char</td>
<td>$1.</td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>module_required</td>
<td>Derived indicator of module execution</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
### Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>module</th>
<th>execute_flag</th>
<th>sascode</th>
<th>cc_table</th>
<th>seqno</th>
<th>module_cat</th>
<th>module_util</th>
<th>module_required</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>l1</td>
<td>y</td>
<td>01.1_mscdm_data_qa</td>
<td>X</td>
<td>1</td>
<td>level 1</td>
<td>n</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>l2</td>
<td>y</td>
<td>01.2_mscdm_data_qa</td>
<td>X</td>
<td>2</td>
<td>level 2</td>
<td>n</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>enr</td>
<td>y</td>
<td>02.1_mscdm_data_qa</td>
<td>ENRTABLE</td>
<td>3</td>
<td>core</td>
<td>n</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>dem</td>
<td>y</td>
<td>03.1_mscdm_data_qa</td>
<td>DEMTABLE</td>
<td>4</td>
<td>core</td>
<td>n</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>dis</td>
<td>y</td>
<td>04.1_mscdm_data_qa</td>
<td>DISTABLE</td>
<td>5</td>
<td>core</td>
<td>n</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>enc</td>
<td>y</td>
<td>05.1_mscdm_data_qa</td>
<td>ENCTABLE</td>
<td>6</td>
<td>core</td>
<td>y</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>dia</td>
<td>y</td>
<td>05.2_mscdm_data_qa</td>
<td>DIATABLE</td>
<td>7</td>
<td>core</td>
<td>y</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>pro</td>
<td>y</td>
<td>05.3_mscdm_data_qa</td>
<td>PROCTABLE</td>
<td>8</td>
<td>core</td>
<td>y</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>dth</td>
<td>y</td>
<td>06.1_mscdm_data_qa</td>
<td>DEATHTABLE</td>
<td>10</td>
<td>core</td>
<td>n</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>cod</td>
<td>y</td>
<td>06.2_mscdm_data_qa</td>
<td>CODTABLE</td>
<td>11</td>
<td>core</td>
<td>n</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>lab</td>
<td>y</td>
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<td>labs</td>
<td>n</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>dates</td>
<td>y</td>
<td>99.1_mscdm_data_qa</td>
<td>X</td>
<td>13</td>
<td>dates-core</td>
<td>n</td>
<td>y</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>l3</td>
<td>y</td>
<td>99.2_mscdm_data_qa</td>
<td>X</td>
<td>14</td>
<td>level 3</td>
<td>n</td>
<td>y</td>
</tr>
</tbody>
</table>

[APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”]
# Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dem_l3_agecat</td>
<td>This dataset contains frequency of records stratified by derived age group category.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>Age_group</td>
<td>Age group</td>
<td>16</td>
<td>Char</td>
<td></td>
<td></td>
<td>DEM.birth_date</td>
<td>DP Max Date</td>
<td>3</td>
</tr>
<tr>
<td>count</td>
<td>Record count per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>4</td>
</tr>
</tbody>
</table>

## Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>Age_group</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>01. 0-1 yrs</td>
<td>2</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>02. 2-4 yrs</td>
<td>6</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>03. 5-9 yrs</td>
<td>7</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>04. 10-14 yrs</td>
<td>6</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>05. 15-18 yrs</td>
<td>3</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>06. 19-21 yrs</td>
<td>2</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>07. 22-44 yrs</td>
<td>14</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>08. 45-64 yrs</td>
<td>6</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>09. 65-74 yrs</td>
<td>2</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>10. 75+ yrs</td>
<td>2</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
### Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dem_i3_ageyr_stats</td>
<td>This dataset contains the statistical distribution of derived age in years.</td>
</tr>
</tbody>
</table>

### Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>N</td>
<td>Frequency of unique values of age in years</td>
<td>8</td>
<td>Num</td>
<td>BEST2.</td>
<td></td>
<td>DEM.birth_date</td>
<td>DP Max Date</td>
<td>Value as calculated by SAS Proc Means</td>
</tr>
<tr>
<td>Mean</td>
<td>Mean value of age in years</td>
<td>8</td>
<td>Num</td>
<td>F8.1</td>
<td></td>
<td>DEM.birth_date</td>
<td>DP Max Date</td>
<td>Value as calculated by SAS Proc Means</td>
</tr>
<tr>
<td>std</td>
<td>Standard deviation value of age in years</td>
<td>8</td>
<td>Num</td>
<td>F8.1</td>
<td>Std Dev</td>
<td>DEM.birth_date</td>
<td>DP Max Date</td>
<td>NA</td>
</tr>
<tr>
<td>Min</td>
<td>Minimum value of age in years</td>
<td>8</td>
<td>Num</td>
<td>F8.1</td>
<td>Minimum</td>
<td>DEM.birth_date</td>
<td>DP Max Date</td>
<td>Value as calculated by SAS Proc Means</td>
</tr>
<tr>
<td>P1</td>
<td>1st percentile value of age in years</td>
<td>8</td>
<td>Num</td>
<td>F8.1</td>
<td>1st Pctl</td>
<td>DEM.birth_date</td>
<td>DP Max Date</td>
<td>Value as calculated by SAS Proc Means</td>
</tr>
<tr>
<td>P5</td>
<td>5th percentile value of age in years</td>
<td>8</td>
<td>Num</td>
<td>F8.1</td>
<td>5th Pctl</td>
<td>DEM.birth_date</td>
<td>DP Max Date</td>
<td>Value as calculated by SAS Proc Means</td>
</tr>
<tr>
<td>P25</td>
<td>25th percentile value of age in years</td>
<td>8</td>
<td>Num</td>
<td>F8.1</td>
<td>25th Pctl DEM.birth_date</td>
<td>DP Max Date</td>
<td>Value as calculated by SAS Proc Means</td>
<td>10</td>
</tr>
<tr>
<td>-----</td>
<td>-------------------------------------</td>
<td>----</td>
<td>-----</td>
<td>------</td>
<td>------------------------</td>
<td>-------------</td>
<td>----------------------------------------</td>
<td>----</td>
</tr>
<tr>
<td>Median</td>
<td>Median value of age in years</td>
<td>8</td>
<td>Num</td>
<td>F8.1</td>
<td>DEM.birth_date</td>
<td>DP Max Date</td>
<td>Value as calculated by SAS Proc Means</td>
<td>11</td>
</tr>
<tr>
<td>P75</td>
<td>75th percentile value of age in years</td>
<td>8</td>
<td>Num</td>
<td>F8.1</td>
<td>75th Pctl DEM.birth_date</td>
<td>DP Max Date</td>
<td>Value as calculated by SAS Proc Means</td>
<td>12</td>
</tr>
<tr>
<td>P95</td>
<td>95th percentile value of age in years</td>
<td>8</td>
<td>Num</td>
<td>F8.1</td>
<td>95th Pctl DEM.birth_date</td>
<td>DP Max Date</td>
<td>Value as calculated by SAS Proc Means</td>
<td>13</td>
</tr>
<tr>
<td>P99</td>
<td>99th percentile value of age in years</td>
<td>8</td>
<td>Num</td>
<td>F8.1</td>
<td>99th Pctl DEM.birth_date</td>
<td>DP Max Date</td>
<td>Value as calculated by SAS Proc Means</td>
<td>14</td>
</tr>
<tr>
<td>Max</td>
<td>Maximum value of age in years</td>
<td>8</td>
<td>Num</td>
<td>F8.1</td>
<td>Maximum DEM.birth_date</td>
<td>DP Max Date</td>
<td>Value as calculated by SAS Proc Means</td>
<td>15</td>
</tr>
</tbody>
</table>

**Example Dataset**

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>std</th>
<th>Min</th>
<th>P1</th>
<th>P5</th>
<th>P25</th>
<th>Median</th>
<th>P75</th>
<th>P95</th>
<th>P99</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>age_years</td>
<td>37</td>
<td>25.5</td>
<td>21.6</td>
<td>1.0</td>
<td>1.0</td>
<td>2.0</td>
<td>7.0</td>
<td>20.5</td>
<td>39.0</td>
<td>73.0</td>
<td>78.0</td>
<td>78.0</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dem_l3_catvars</td>
<td>This dataset contains frequency of records stratified by sex, race, and Hispanic values.</td>
</tr>
</tbody>
</table>

Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>SEX</td>
<td>Observed Sex values</td>
<td>1</td>
<td>Char</td>
<td>$1.</td>
<td>DEM.sex</td>
<td>NA</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HISPANIC</td>
<td>Observed Hispanic values</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>DEM.hispanic</td>
<td>NA</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>RACE</td>
<td>Observed Race values</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>DEM.race</td>
<td>NA</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>count</td>
<td>Record count per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>NA</td>
<td>NA</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>SEX</th>
<th>HISPANIC</th>
<th>RACE</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>F</td>
<td>N</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>F</td>
<td>N</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>F</td>
<td>N</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>F</td>
<td>Y</td>
<td>0</td>
<td>14</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>M</td>
<td>N</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>M</td>
<td>N</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>M</td>
<td>N</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>M</td>
<td>Y</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>U</td>
<td>N</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dem_l3_zip_state</td>
<td>This dataset contains frequency of records stratified by derived state associated with observed zip code values.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>Zip_State</td>
<td>The state abbreviation associated with the 5-digit ZIP code</td>
<td>7</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned based on ZIP code to state matching in lookup table</td>
<td>3</td>
</tr>
<tr>
<td>count</td>
<td>Record count per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>NA</td>
<td></td>
<td>NA</td>
<td>4</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
## Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>Zip_State</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>AL</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>AR</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>AZ</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>CA</td>
<td>2</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>CO</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>CT</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DC</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>DE</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>FL</td>
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<td>OC</td>
<td>IN</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>Invalid</td>
<td>3</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>KS</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>KY</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>LA</td>
<td>1</td>
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<td>OC</td>
<td>MA</td>
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<td>OC</td>
<td>MD</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ME</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>MI</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>MN</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>MS</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>Missing</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>NC</td>
<td>1</td>
</tr>
</tbody>
</table>
## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dem_I3_zip_verify_y</td>
<td>This dataset contains frequency of records stratified by ZIP code validation status by year. Validation status refers to whether a ZIP code is valid or invalid.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Year</td>
<td>Derived Year values</td>
<td>4</td>
<td>Char</td>
<td></td>
<td>DEM.zip_date</td>
<td>Convert numeric date to a character value representing the corresponding year</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Zip_Check</td>
<td>ZIP Code value validation</td>
<td>7</td>
<td>Char</td>
<td></td>
<td>DEM.zip</td>
<td>inputfiles.lkp_dem_zip</td>
<td>Assigned as 'Blank', 'Valid', or 'Invalid', based on ZIP Code lookup table</td>
<td>4</td>
</tr>
<tr>
<td>count</td>
<td>Record count per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>NA</td>
<td>NA</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>Year</th>
<th>Zip_Check</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>2000</td>
<td>Blank</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>2000</td>
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<td>2</td>
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<tr>
<td>MS</td>
<td>OC</td>
<td>2000</td>
<td>Valid</td>
<td>19</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>2001</td>
<td>Valid</td>
<td>11</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>2002</td>
<td>Invalid</td>
<td>1</td>
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<tr>
<td>MS</td>
<td>OC</td>
<td>2002</td>
<td>Valid</td>
<td>7</td>
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<tr>
<td>MS</td>
<td>OC</td>
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<tr>
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<td>OC</td>
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<td>Valid</td>
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<td>OC</td>
<td>2005</td>
<td>Valid</td>
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<td>MS</td>
<td>OC</td>
<td>2007</td>
<td>Valid</td>
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</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>2009</td>
<td>Valid</td>
<td>1</td>
</tr>
</tbody>
</table>
## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dem_I3_zip_y</td>
<td>This dataset contains frequency of records stratified by masked ZIP codes by year. Zip_masked variable is based on the value format and length of the source zip variable.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
</tr>
<tr>
<td>Year</td>
<td>Derived Year values</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
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**Variable Attributes**

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</tr>
<tr>
<td><strong>p75</strong></td>
<td>75th percentile value of unique diagnoses per encounter</td>
<td>8</td>
<td></td>
<td></td>
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<tr>
<td><strong>p95</strong></td>
<td>95th percentile value of unique diagnoses per encounter</td>
<td>8</td>
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<tr>
<td><strong>p99</strong></td>
<td>99th percentile value of unique diagnoses per encounter</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>max</strong></td>
<td>Maximum value of unique diagnoses per encounter</td>
<td>8</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

| Example Dataset | | | | | | | | | | | | 
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|
| DPID | SiteID | enc | dxs | mean | std | min | p1 | p5 | p25 | median | p75 | p95 | p99 | max |
| MS | OC | 2,190 | 4,038 | 1.84 | 1.16 | 1 | 1 | 1 | 1 | 2.0 | 2 | 3 | 7 | 16 |
## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dia_l3_padmit</td>
<td>This dataset contains the frequency of records stratified by Padmit.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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<tr>
<td>PAdmit</td>
<td>Observed Padmit values</td>
<td>1</td>
<td>Char</td>
<td></td>
<td></td>
<td>DIA.padmit</td>
<td>NA</td>
<td>3</td>
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<tr>
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<td>Record count per stratum</td>
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<td>Num</td>
<td>COMMA15.</td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>4</td>
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## Example Dataset

<table>
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<th>SiteID</th>
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<td>4,038</td>
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</tbody>
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## Dataset Description

<table>
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<th>DESCRIPTION</th>
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</thead>
<tbody>
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<td>dis_l2_ndc</td>
<td>This dataset contains one row per unique NDC value.</td>
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</tbody>
</table>

## Variable Attributes

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<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
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</thead>
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<td>Char</td>
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### Example Dataset

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<td>#</td>
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<td>OC</td>
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</tr>
<tr>
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<td>00002322930</td>
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<td>OC</td>
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<td>00029315818</td>
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<td>OC</td>
<td>00029315920</td>
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### Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dis_l3_rx_pt_y_stats</td>
<td>This dataset contains the statistical distribution of frequency of unique dispensings per member stratified by year.</td>
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### Variable Attributes

<table>
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<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td>Common Components macro variable DPID</td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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</tr>
<tr>
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<td>Observed Year of rxdate values</td>
<td>7</td>
<td>Char</td>
<td></td>
<td>DIS.rxdate</td>
<td></td>
<td>Convert numeric rxdate value to character value representing the corresponding year</td>
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</tr>
<tr>
<td>n_ptyr</td>
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<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>DIS.patid</td>
<td>rxdate</td>
<td>NA</td>
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<tr>
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<td>COMMA15.</td>
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<td>ndc</td>
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<tr>
<td>Mean</td>
<td>Mean value of unique dispensings per patient by year</td>
<td>8</td>
<td>Num</td>
<td>F10.2</td>
<td>DIS.patid</td>
<td>rxdate</td>
<td>ndc</td>
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<tr>
<td>Std</td>
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<td>8</td>
<td>Num</td>
<td>F10.2</td>
<td>Std Dev</td>
<td>DIS.patid</td>
<td>rxdate</td>
<td>ndc</td>
</tr>
<tr>
<td>Min</td>
<td>Minimum value of unique dispensings per patient by year</td>
<td>8</td>
<td>Num</td>
<td>F10.1</td>
<td>Minimum</td>
<td>DIS.patid</td>
<td>rxdate</td>
<td>ndc</td>
</tr>
<tr>
<td>P1</td>
<td>1st percentile value of unique dispensings per patient by year</td>
<td>8</td>
<td>Num</td>
<td>F10.1</td>
<td>1st Pctl</td>
<td>DIS.patid</td>
<td>rxdate</td>
<td>ndc</td>
</tr>
<tr>
<td>P5</td>
<td>5th percentile value of unique dispensings per patient by year</td>
<td>8</td>
<td>Num</td>
<td>F10.1</td>
<td>5th Pctl</td>
<td>DIS.patid</td>
<td>rxdate</td>
<td>ndc</td>
</tr>
<tr>
<td>P25</td>
<td>25th percentile value of unique dispensings per patient by year</td>
<td>8</td>
<td>Num</td>
<td>F10.1</td>
<td>25th Pctl</td>
<td>DIS.patid</td>
<td>rxdate</td>
<td>ndc</td>
</tr>
<tr>
<td>Median</td>
<td>Median value of unique dispensings per patient by year</td>
<td>8</td>
<td>Num</td>
<td>F10.1</td>
<td>DIS.patid</td>
<td>rxdate</td>
<td>ndc</td>
<td>Value as calculated by SAS Proc Means</td>
</tr>
<tr>
<td>P75</td>
<td>75th percentile value of unique dispensings per patient by year</td>
<td>8</td>
<td>Num</td>
<td>F10.1</td>
<td>75th Pctl</td>
<td>DIS.patid</td>
<td>rxdate</td>
<td>ndc</td>
</tr>
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<td>Num</td>
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<td>95th Pctl</td>
<td>DIS.patid</td>
<td>rxdate</td>
<td>ndc</td>
</tr>
<tr>
<td>P99</td>
<td>99th percentile value of unique dispensings per patient by year</td>
<td>8</td>
<td>Num</td>
<td>F10.1</td>
<td>99th Pctl</td>
<td>DIS.patid</td>
<td>rxdate</td>
<td>ndc</td>
</tr>
<tr>
<td>Max</td>
<td>Maximum value of unique dispensings per patient by year</td>
<td>8</td>
<td>Num</td>
<td>F10.1</td>
<td>Maximum</td>
<td>DIS.patid</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Example Dataset

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<tr>
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<th>Year</th>
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<th>n_rx</th>
<th>Mean</th>
<th>Std</th>
<th>Min</th>
<th>P1</th>
<th>P5</th>
<th>P25</th>
<th>Median</th>
<th>P75</th>
<th>P95</th>
<th>P99</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>2004</td>
<td>11</td>
<td>320</td>
<td>29.09</td>
<td>19.82</td>
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## Dataset Description

<table>
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<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>dis_l3_rxamt</td>
<td>This dataset contains frequency of records stratified by RxAmt values.</td>
</tr>
</tbody>
</table>

## Variable Attributes

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<tr>
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<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
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<td>NA</td>
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<tr>
<td>count</td>
<td>Record Count per stratum</td>
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<td>COMMA15.</td>
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## Example Dataset

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<td>7</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>19.0000</td>
<td>1</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
**Dataset Description**

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dis_l3_rxdate_ym</td>
<td>This dataset contains frequency of records stratified by RxDate year-month values.</td>
</tr>
</tbody>
</table>

**Variable Attributes**

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>YearMonth</td>
<td>Derived Year-Month values</td>
<td>7</td>
<td>Char</td>
<td></td>
<td>DIS.rxdate</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>count</td>
<td>Record Count per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td>NA</td>
<td>NA</td>
<td>4</td>
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</tr>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
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<th>YearMonth</th>
<th>count</th>
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<tbody>
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<td>MS</td>
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<td>2004-07</td>
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<tr>
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<td>OC</td>
<td>2004-08</td>
<td>49</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>2004-09</td>
<td>52</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>2004-10</td>
<td>51</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>2004-11</td>
<td>63</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>2004-12</td>
<td>55</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
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<td>MS</td>
<td>OC</td>
<td>2005-02</td>
<td>59</td>
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<tr>
<td>MS</td>
<td>OC</td>
<td>2005-03</td>
<td>52</td>
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</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>2006-07</td>
<td>31</td>
</tr>
</tbody>
</table>
## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dis_l3_rxsup</td>
<td>This dataset contains frequency of records stratified by RxSup values.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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</tr>
<tr>
<td>RXSUP</td>
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<td>4</td>
<td>Num</td>
<td></td>
<td>DIS.rxsup</td>
<td>NA</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>count</td>
<td>Record Count per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
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<th>RXSUP</th>
<th>count</th>
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<tbody>
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<td>.</td>
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<tr>
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<td>23</td>
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<tr>
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<td>OC</td>
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<td>5</td>
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<td>OC</td>
<td>3</td>
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<td>OC</td>
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**APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”**
### Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dth_l3_catvars</td>
<td>This dataset contains frequency of records stratified by dtimpute, source, and confidence values.</td>
</tr>
</tbody>
</table>

### Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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</tr>
<tr>
<td>DTIMPUTE</td>
<td>Observed Dtimpute values</td>
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<td>Char</td>
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<td>DTH.dtimpute</td>
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<tr>
<td>SOURCE</td>
<td>Observed Source values</td>
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<td>Char</td>
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<td></td>
<td>DTH.source</td>
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<tr>
<td>CONFIDENCE</td>
<td>Observed Confidence values</td>
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<td>Char</td>
<td></td>
<td></td>
<td>DTH.confidence</td>
<td>NA</td>
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</tr>
<tr>
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<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>6</td>
</tr>
</tbody>
</table>

### Example Dataset

<table>
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<tr>
<th>DPID</th>
<th>SiteID</th>
<th>DTIMPUTE</th>
<th>SOURCE</th>
<th>CONFIDENCE</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>B</td>
<td>L</td>
<td>E</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>D</td>
<td>N</td>
<td>P</td>
<td>1</td>
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Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>dth_l3_dthdt_ym</td>
<td>This dataset contains frequency of records stratified by Deathdt year-month values.</td>
</tr>
</tbody>
</table>

Variable Attributes

<table>
<thead>
<tr>
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<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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</tr>
<tr>
<td>YearMonth</td>
<td>Derived Year-Month values</td>
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<td>Char</td>
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<td></td>
<td>DTH.deathdt</td>
<td>Convert numeric date to a character value representing the corresponding year-month</td>
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<tr>
<td>count</td>
<td>Record Count per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>4</td>
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</tbody>
</table>

Example Dataset

<table>
<thead>
<tr>
<th>DPID</th>
<th>SiteID</th>
<th>YearMonth</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
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<td>2007-01</td>
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</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>2007-09</td>
<td>1</td>
</tr>
</tbody>
</table>
## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>enc_l2_enctype_admit_dc</td>
<td>This dataset contains frequency of records stratified by enctype, admitting_source, discharge_disposition, and discharge_status values.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
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</thead>
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<td>Assigned by the SOC and populated by the DP at the site</td>
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<td>ENC.enctype</td>
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<td>NA</td>
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</tr>
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<td>Observed Admitting_source values</td>
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<td>Char</td>
<td></td>
<td>ENC.admitting_source</td>
<td>NA</td>
<td>NA</td>
<td>4</td>
</tr>
<tr>
<td>DISCHARGE_DISPOSITION</td>
<td>Observed Discharge_disposition values</td>
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<td>Char</td>
<td></td>
<td>ENC.discharge_disposition</td>
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<tr>
<td>DISCHARGE_STATUS</td>
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<td>Char</td>
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<td>ENC.discharge_status</td>
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<td>COMMA15.</td>
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</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

<table>
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<tr>
<th>DPID</th>
<th>SiteID</th>
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<th>ADMITTING_SOURCE</th>
<th>DISCHARGE_DISPOSITION</th>
<th>DISCHARGE_STATUS</th>
<th>count</th>
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<td>OC</td>
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<td>AM</td>
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<td>1</td>
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<td>MS</td>
<td>OC</td>
<td>IP UN A</td>
<td></td>
<td>OT</td>
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</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>enc_l2_enc_type_drg_drg_type</td>
<td>This dataset contains frequency of records stratified by enctype, DRG, and DRG_type values.</td>
</tr>
</tbody>
</table>

Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
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</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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<td></td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Example Dataset

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**APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”**
**Dataset Description**

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<td>This dataset contains frequency of records stratified by DRG_type and Adate year values.</td>
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**Variable Attributes**

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<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
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### Variable Attributes

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**Dataset Description**

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<td>This dataset contains frequency of records stratified by enctype and year-month of Ddate values.</td>
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**Variable Attributes**

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<th>FORMAT</th>
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<th>SOURCE</th>
<th>DERIVATION</th>
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<tbody>
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<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
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<td>Char</td>
<td></td>
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<td>Common Components macro variable DPID</td>
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Dataset Description

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<tbody>
<tr>
<td>enc_l3_enctype_los</td>
<td>This dataset contains frequency of records stratified by enctype and derived length of stay (LOS).</td>
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</tbody>
</table>

Variable Attributes

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<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Dataset Description

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## Variable Attributes

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<th>FORMAT</th>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

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### Variable Attributes

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<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
## Example Dataset

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
**Dataset Description**

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<td>This dataset contains frequency of records stratified by facility_location values.</td>
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**Variable Attributes**

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<th>ORDER</th>
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**Example Dataset**

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
**Dataset Description**

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<td>This dataset contains statistical distribution of unique encounterids per member stratified by derived year-month.</td>
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**Variable Attributes**

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

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## Variable Attributes

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
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## Example Dataset

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<th>count</th>
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<td>Y</td>
<td>N</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Dataset Description

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<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>enr_l3_covtype_duration</td>
<td>This dataset contains frequency of unique members stratified by total coverage duration in months and coverage type.</td>
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### Variable Attributes

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<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
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<th>DERIVATION</th>
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</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
This dataset contains frequency of records with medical and/or drug coverage stratified by year-month of enrollment date. This is determined by whether at least one day within an enrollment span crosses a year-month.

<table>
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<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
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<td>SiteID</td>
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<td>Numeric date is converted to a character value representing the corresponding year-month</td>
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<tr>
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<td>ENR.enr_start</td>
<td>enr_end</td>
<td>medcov</td>
<td>Frequency of active enrollment records where medcov=Y per year-month</td>
</tr>
<tr>
<td>drug</td>
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<td>ENR.enr_start</td>
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<td>drugcov</td>
<td>Frequency of active enrollment records where drugcov=Y per year-month</td>
</tr>
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<td>Count of enrollment records with active medical and drug coverage by year-month</td>
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<td>ENR.enr_start</td>
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<td>Frequency of active enrollment records where medcov and drugcov=Y per year-month</td>
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# Example Dataset

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**APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”**
### Dataset Description

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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>enr_l3_mdcov_months_stats</td>
<td>This dataset contains the statistical distribution on total duration, across all enrollment spans, of combined active medical and drug coverage (in months) by unique member.</td>
</tr>
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</table>

### Variable Attributes

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<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
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<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
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<td>Char</td>
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<td>Common Components macro variable SiteID</td>
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<td>The mean duration in months of medical and drug coverage per member</td>
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<td>msoc.enr.l3_covtype_duration.months</td>
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<td>Value as calculated by SAS Proc Means</td>
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<tr>
<td>max</td>
<td>The maximum duration in months of medical and drug coverage per member</td>
<td>8</td>
<td>Num</td>
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<td>Value as calculated by SAS Proc Means</td>
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### Example Dataset

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<th>std</th>
<th>min</th>
<th>p1</th>
<th>p5</th>
<th>p25</th>
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<th>p75</th>
<th>p95</th>
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<tr>
<td>MS</td>
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<td>28.5</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Dataset Description

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### Variable Attributes

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<th>SOURCE</th>
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<th>ORDER</th>
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<tbody>
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<td>6</td>
<td>Char</td>
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<td>CC.dpid</td>
<td>siteid</td>
<td>Upcase{dpid}{siteid}</td>
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<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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### Example Dataset

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<tr>
<td>MSOC</td>
<td>MS</td>
<td>OC</td>
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</tbody>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>lab_l2_ms_result</td>
<td>This dataset contains frequency of records stratified by MS_Test_Name, MS_test_sub_category, Result_type, Fast_Ind, Specimen_Source, LOINC, MS_result_C, MS_result_N, Modifier, and MS_Result_unit values, excluding records where result type=C for any numeric-only test.</td>
</tr>
</tbody>
</table>

### Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
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</thead>
<tbody>
<tr>
<td>DPID</td>
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<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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<tr>
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<td>Char</td>
<td>$10.</td>
<td>LAB.ms_test_name</td>
<td>NA</td>
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</tr>
<tr>
<td>Result_Type</td>
<td>Observed Result_Type values</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>LAB.result_type</td>
<td>NA</td>
<td>4</td>
<td></td>
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<tr>
<td>MS_Test_Sub_Category</td>
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<td>Char</td>
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<td>LAB.ms_test_sub_category</td>
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<td>Fast_Ind</td>
<td>Observed Fast_Ind values</td>
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<td>NA</td>
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<td>Observed Specimen_Source values</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
### Example Dataset

<table>
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<th>SiteID</th>
<th>MS_Test_Name</th>
<th>Result_Type</th>
<th>MS_Test_Sub_Category</th>
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<th>MS_Result_unit</th>
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<tbody>
<tr>
<td>MS</td>
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<td>ALP</td>
<td>N</td>
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<td>2056.22</td>
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<td>MS</td>
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<td>OC</td>
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<td>N</td>
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<td>MS</td>
<td>OC</td>
<td>BILI_TOT</td>
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<td>X</td>
<td>SR_PLS</td>
<td>1975-2</td>
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<td>OC</td>
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<td>EQ</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Dataset Description

<table>
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<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
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<tr>
<td>lab_l2_ms_result_x</td>
<td>This dataset contains frequency of records stratified by MS_Test_Name, MS_test_sub_category, Result_type, Fast_Ind, Specimen_Source, LOINC, MS_result_C, MS_result_N, Modifier, and MS_Result_unit values for records where result type=C for any numeric-only test.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
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<td>2</td>
</tr>
<tr>
<td>MS_Test_Name</td>
<td>Observed MS_Test_Name values</td>
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<td>Char</td>
<td>$10.</td>
<td></td>
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</tr>
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<td>Observed Result_Type values</td>
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<td>NA</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
## Example Dataset

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
**Dataset Description**

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**Variable Attributes**

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<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Dataset Description

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## Variable Attributes

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<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
### Example Dataset

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<td>CLC</td>
<td>X</td>
<td>UNK</td>
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<td>MG/DL</td>
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<tr>
<td>MS</td>
<td>OC</td>
<td>CHOL_LDL</td>
<td>N</td>
<td>DIRECT</td>
<td>F</td>
<td>SR_PLS</td>
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<td>MG/DL</td>
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<td>DIRECT</td>
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<td>SR_PLS</td>
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<td>OC</td>
<td>CHOL_LDL</td>
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<td>DIRECT</td>
<td>X</td>
<td>SR_PLS</td>
<td>mg/dl</td>
<td>MG/DL</td>
<td>1</td>
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<tr>
<td>MS</td>
<td>OC</td>
<td>CHOL_LDL</td>
<td>N</td>
<td>DIRECT</td>
<td>X</td>
<td>UNK</td>
<td>mg/dl</td>
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<td>OC</td>
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<td>Z</td>
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<td>X</td>
<td>UNK</td>
<td>mg/dl</td>
<td>MG/DL</td>
<td>Z</td>
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<tr>
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<td>OC</td>
<td>CK</td>
<td>N</td>
<td>X</td>
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<td>U/L</td>
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<td>U/L</td>
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<td>OC</td>
<td>CK</td>
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<td>X</td>
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<td>U/L</td>
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**APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”**
### Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>lab_l3_abn_ind</td>
<td>This dataset contains frequency of records stratified by MS_test_name, Result_Type, and Abn_ind values.</td>
</tr>
</tbody>
</table>

### Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
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<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>2</td>
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<tr>
<td>MS_Test_Name</td>
<td>Observed MS_Test_Name values</td>
<td>10</td>
<td>Char</td>
<td>$10.</td>
<td>MS_Test_Name</td>
<td>LAB.ms_test_name</td>
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<td>Result_Type</td>
<td>Observed Result_Type values</td>
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<td>Char</td>
<td></td>
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<td>LAB.result_type</td>
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</tr>
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<td>Abn_ind</td>
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<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>LAB.abn_ind</td>
<td>NA</td>
<td>5</td>
</tr>
<tr>
<td>count</td>
<td>Record Count per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>6</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

<table>
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<tr>
<th>DPID</th>
<th>SiteID</th>
<th>MS_Test_Name</th>
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<th>Abn_ind</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
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<td>C</td>
<td>AH</td>
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<td>OC</td>
<td>ALP</td>
<td>N</td>
<td>AB</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ALP</td>
<td>N</td>
<td>AH</td>
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<td>ALP</td>
<td>N</td>
<td>CL</td>
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<td>ALT</td>
<td>N</td>
<td>AB</td>
<td>1</td>
</tr>
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<tr>
<td>MS</td>
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<td>BILI_TOT</td>
<td>N</td>
<td>AH</td>
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<tr>
<td>MS</td>
<td>OC</td>
<td>BILI_TOT</td>
<td>N</td>
<td>CH</td>
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<tr>
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<td>OC</td>
<td>BILI_TOT</td>
<td>N</td>
<td>IN</td>
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</tr>
<tr>
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<td>OC</td>
<td>CHOL_HDL</td>
<td>N</td>
<td>AB</td>
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<tr>
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<td>OC</td>
<td>CHOL_HDL</td>
<td>N</td>
<td>AH</td>
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<td>OC</td>
<td>CHOL_HDL</td>
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<td>AL</td>
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<td>CHOL_HDL</td>
<td>N</td>
<td>CH</td>
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<td>OC</td>
<td>CHOL_HDL</td>
<td>N</td>
<td>CL</td>
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<td>MS</td>
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<td>CHOL_HDL</td>
<td>N</td>
<td>IN</td>
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</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
### Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>lab_l3_cat_resultn_ptloc_{test}</td>
<td>This dataset contains frequency of records with MS_Result_N values that fall into pre-defined categories of result value ranges, stratified by MS_Test_Name, MS_Test_Sub_Category, Fast_Ind, Pt_Loc, MS_Result_Unit, and MS_Result_Range (derived).</td>
</tr>
</tbody>
</table>

### Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
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<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
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<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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<td>Char</td>
<td>$10.$</td>
<td>MS_Test_Name</td>
<td>LAB.ms_test_name</td>
<td>NA</td>
<td>3</td>
</tr>
<tr>
<td>MS_Test_Sub_Category</td>
<td>Observed MS_Test_Sub_Category values</td>
<td>6</td>
<td>Char</td>
<td>$6.$</td>
<td>MS_Test_Sub_Category</td>
<td>LAB.ms_test_sub_category</td>
<td>NA</td>
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</tr>
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<td>Fast_Ind</td>
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<td>Char</td>
<td></td>
<td></td>
<td>LAB.fast_Ind</td>
<td>NA</td>
<td>5</td>
</tr>
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<td>Pt_Loc</td>
<td>Observed Pt_loc values</td>
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<td>Char</td>
<td></td>
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<td>LAB.pt_loc</td>
<td>NA</td>
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</tr>
<tr>
<td>MS_Result_unit</td>
<td>Observed MS_Result_unit values</td>
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<td>Char</td>
<td>$11.$</td>
<td>MS_Result_unit</td>
<td>LAB.ms_result_unit</td>
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<td>7</td>
</tr>
<tr>
<td>ms_result_range</td>
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<td>25</td>
<td>Char</td>
<td></td>
<td></td>
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</tr>
<tr>
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<td>Num</td>
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Example Dataset

<table>
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<th>MS_Test_Name</th>
<th>MS_Test_Sub_Category</th>
<th>Fast_Ind</th>
<th>Pt_Loc</th>
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<th>ms_result_range</th>
<th>count</th>
</tr>
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<tbody>
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<td>MS</td>
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<td>E</td>
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<td>U/L</td>
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<td>ALP</td>
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<td>H</td>
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<td>U/L</td>
<td>&lt;25</td>
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</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ALP</td>
<td>X</td>
<td>H</td>
<td></td>
<td>U/L</td>
<td>&gt;=350</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ALP</td>
<td>X</td>
<td>I</td>
<td></td>
<td>U/L</td>
<td>25-&lt;75</td>
<td>1</td>
</tr>
<tr>
<td>MS</td>
<td>OC</td>
<td>ALP</td>
<td>X</td>
<td>I</td>
<td></td>
<td>U/L</td>
<td>&gt;=350</td>
<td>1</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
**Dataset Description**

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>lab_l3_cat_resultn_ss_{test}</td>
<td>This dataset contains frequency of records stratified by MS_Result_N values that fall into pre-defined categories of result value ranges, stratified by MS_Test_Name, MS_Test_Sub_Category, Fast_Ind, Specimen_Source, MS_Result_Unit, and MS_Result_Range (derived).</td>
</tr>
</tbody>
</table>

**Variable Attributes**

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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</tr>
<tr>
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<td>Observed MS_Test_Name values</td>
<td>10</td>
<td>Char</td>
<td>$10.</td>
<td>MS_Test_Name</td>
<td>LAB.ms_test_name</td>
<td>NA</td>
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<td>Char</td>
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<td>MS_Test_Sub_Category</td>
<td>LAB.ms_test_sub_category</td>
<td>NA</td>
<td>4</td>
</tr>
<tr>
<td>Fast_Ind</td>
<td>Observed Fast_Ind values</td>
<td>1</td>
<td>Char</td>
<td></td>
<td>LAB.fast_Ind</td>
<td>NA</td>
<td>NA</td>
<td>5</td>
</tr>
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<td>Specimen_Source</td>
<td>LAB.specimen_source</td>
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</tr>
<tr>
<td>MS_Result_unit</td>
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<td>Char</td>
<td>$11.</td>
<td>MS_Result_unit</td>
<td>LAB.ms_result_unit</td>
<td>NA</td>
<td>7</td>
</tr>
<tr>
<td>ms_result_range</td>
<td>Standardized result range category for MS_Result_N value</td>
<td>25</td>
<td>Char</td>
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<td></td>
<td></td>
<td>Convert non-missing MS_Result_N values to a range category based on formats in lookup table.</td>
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<tr>
<td>count</td>
<td>Record Count per stratum</td>
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<td></td>
<td>NA</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>
## Example Dataset

<table>
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<tr>
<th>DPID</th>
<th>SiteID</th>
<th>MS_Test_Name</th>
<th>MS_Test_Sub_Category</th>
<th>Fast_Ind</th>
<th>Specimen_Source</th>
<th>MS_Result_unit</th>
<th>ms_result_range</th>
<th>count</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>OC</td>
<td>ALP</td>
<td>X</td>
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<td>SR_PLS</td>
<td>U/L</td>
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<tr>
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<td>OC</td>
<td>ALP</td>
<td>X</td>
<td></td>
<td>SR_PLS</td>
<td>U/L</td>
<td>25-&lt;75</td>
<td>1</td>
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<tr>
<td>MS</td>
<td>OC</td>
<td>ALP</td>
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<td></td>
<td>SR_PLS</td>
<td>U/L</td>
<td>&gt;=350</td>
<td>3</td>
</tr>
</tbody>
</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>lab_l3_dates</td>
<td>This dataset contains frequency of records stratified by MS_test_name, result_type, derived labdt, derived resdt, and derived orddt values.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
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**APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”**
### Dataset Description

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<td>Result_Type, derived Order_ym, derived Lab_ym, and derived Result_ym values.</td>
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### Variable Attributes

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<th>LABEL</th>
<th>SOURCE</th>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
**Dataset Description**

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**Variable Attributes**

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<th>SOURCE</th>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Example Dataset

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### Dataset Description

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<tr>
<td>lab_l3_n_patid_enrolled_test_y</td>
<td>This dataset contains frequency of unique members stratified by MS_test_name, result_type, and derived year values.</td>
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### Variable Attributes

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<th>DESCRIPTION</th>
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<th>TYPE</th>
<th>FORMAT</th>
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<th>SOURCE</th>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

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**APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”**
## Dataset Description

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<td>This dataset contains frequency of unique PatID by MS_test_name, and result_type values.</td>
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## Variable Attributes

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
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**APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”**
### Dataset Description

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<td>This dataset contains frequency of unique PatID by MS_Test_Name, Result_Type, and derived year values.</td>
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</tbody>
</table>

### Variable Attributes

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<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
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</thead>
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<td>DPID</td>
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<td>Char</td>
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<tr>
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<td>Count of unique PatID values per stratum</td>
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<td>Num</td>
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**APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”**
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
## Dataset Description

This dataset contains frequency of records stratified by MS_Test_Name, Result_Type, MS_Test_Sub_Category, Fast_Ind, and derived year-month values.

## Variable Attributes

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<td>Algorithm combines user-defined date selection hierarchy and data availability to convert numeric date to a character value representing the corresponding year-month (Default hierarchy is Lab_dt, Order_dt, then result_dt)</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
### Example Dataset

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Dataset Description

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<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>lab_l3_stat</td>
<td>This dataset contains frequency of records stratified by ms_test_name, result_type, and stat values.</td>
</tr>
</tbody>
</table>

## Variable Attributes

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<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
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<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Dataset Description

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<td>lab_l3_test_resultc_stats</td>
<td>This dataset contains frequency of records stratified by MS_Test_Name, MS_Test_Sub_Category, Fast_ind, Specimen_Source, Pt_Loc, MS_Result_C, and</td>
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## Variable Attributes

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<tr>
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<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
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</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
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<td>DPID</td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
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<td>Common Components macro variable SiteID</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

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<th>SiteID</th>
<th>MS_Test_Name</th>
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<th>Fast_Ind</th>
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<th>Pt_Loc</th>
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<td>POSITIVE</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Dataset Description

This dataset contains the statistical distribution and frequency of records where Result_type=N, stratified by MS_Test_Name, Result_Type, MS_Test_Sub_Category, Fast_Ind, Specimen_Source, Pt_loc, Modifier, Orig_Result_Unit, Std_result_unit, and MS_Result_Unit values.

## Variable Attributes

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<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
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<td>Char</td>
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<td>Common Components macro variable DPID</td>
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</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
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<td>Common Components macro variable SiteID</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Dataset Description

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### Variable Attributes

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
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**APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”**

- **Orig_Result_Unit**: Observed values are converted from character to numeric for this table.
- **Std**: Value as calculated by SAS Proc Means. Orig_Result is converted from character to numeric for this table.
- **Min**: Value as calculated by SAS Proc Means. Orig_Result is converted from character to numeric for this table.
- **P5**: Value as calculated by SAS Proc Means where Result_type='N' and MS_Result_N ne missing.
- **P25**: Value as calculated by SAS Proc Means where Result_type='N' and MS_Result_N ne missing.
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<th>Notes</th>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
## Example Dataset

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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
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<td>MG/DL</td>
<td>EQ</td>
<td>11</td>
<td>245.00</td>
<td>188.89</td>
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<td>4.87</td>
<td>4.87</td>
<td>22.04</td>
<td>295.80</td>
<td>411.10</td>
<td>485.30</td>
<td>485.30</td>
</tr>
<tr>
<td>MG/DL</td>
<td>MG/DL</td>
<td>EQ</td>
<td>12</td>
<td>304.33</td>
<td>153.85</td>
<td>18.66</td>
<td>18.66</td>
<td>18.66</td>
<td>194.85</td>
<td>333.70</td>
<td>432.60</td>
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<tr>
<td>MG/DL</td>
<td>Z</td>
<td>EQ</td>
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<tr>
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<td>MG/DL</td>
<td>EQ</td>
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<td>343.65</td>
<td>143.75</td>
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**APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”**
## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>lab_l3_times</td>
<td>This dataset contains frequency of records stratified by MS_Test_Name, Result_Type, derived Labtm, and derived Restm values.</td>
</tr>
</tbody>
</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
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</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>2</td>
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<td>MS_Test_Name</td>
<td>Observed MS_Test_Name values</td>
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<td>Char</td>
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<td>LAB.ms_test_name</td>
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<td>Result_Type</td>
<td>Observed Result_Type values</td>
<td>1</td>
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<td></td>
<td>LAB.result_type</td>
<td>NA</td>
<td>NA</td>
<td>4</td>
</tr>
<tr>
<td>Labtm</td>
<td>Indicator whether lab_tm is populated. 0 = Lab_tm is not populated. 1 = Lab_tm is populated.</td>
<td>3</td>
<td>Num</td>
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<td>Lab_tm populated?</td>
<td>LAB.lab_tm</td>
<td>Convert lab_dt from numeric date to character representing whether lab_tm field is populated (e.g. null lab_dt = 0)</td>
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</tr>
<tr>
<td>Restm</td>
<td>Indicator whether result_tm is populated. 0 = result_tm is not populated. 1 = result_tm is populated.</td>
<td>3</td>
<td>Num</td>
<td></td>
<td>Result_tm populated?</td>
<td>LAB.result_tm</td>
<td>Convert result_tm from numeric date to character representing whether result_tm field is populated (e.g. null lab_dt = 0)</td>
<td>6</td>
</tr>
<tr>
<td>count</td>
<td>Record Count per stratum</td>
<td>8</td>
<td>Num</td>
<td>COMMA15.</td>
<td></td>
<td>NA</td>
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</table>
### Example Dataset

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<th>Restm</th>
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<td>OC</td>
<td>ANC</td>
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Dataset Description

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<tr>
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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>licensed</td>
<td>This metadata file contains DP-specific SAS component license status.</td>
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Variable Attributes

<table>
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<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
</tr>
<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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<tr>
<td>Site</td>
<td>Unique Data Partner identifier</td>
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<td>Char</td>
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<td></td>
<td>Common Components macro variables DPID and SiteID</td>
<td>Combination of DPID and SiteID</td>
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<tr>
<td>Component</td>
<td>Name of SAS component</td>
<td>8</td>
<td>Char</td>
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<td>Proc setinit</td>
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<tr>
<td>Status</td>
<td>License status by component</td>
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<td>Char</td>
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Example Dataset

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<td>STAT</td>
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<td>GRAPH</td>
<td>Licensed</td>
</tr>
<tr>
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</tr>
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<td>OC</td>
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</tr>
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<td>OC</td>
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</tr>
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<td>OC</td>
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## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>minmax_dates</td>
<td>This metadata file contains derived minimum and maximum dates for data completeness.</td>
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</tbody>
</table>

## Variable Attributes

<table>
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<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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</tr>
<tr>
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<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
<td></td>
<td>Common Components macro variable SiteID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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<td>Overall DP Minimum Date for Data Completeness</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10</td>
<td>Overall DP Minimum Date for Data Completeness</td>
<td>DIA[DIS</td>
<td>ENC</td>
<td>ENR</td>
</tr>
<tr>
<td>DP_MaxDate</td>
<td>Overall DP Maximum Date for Data Completeness</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10</td>
<td>Overall DP Maximum Date for Data Completeness</td>
<td>DIA[DIS</td>
<td>ENC</td>
<td>ENR</td>
</tr>
<tr>
<td>DIA_MinDate</td>
<td>Diagnosis table Minimum Date for Data Completeness</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10</td>
<td>Diagnosis table Minimum Date for Data Completeness</td>
<td>DIA.adate</td>
<td>See functional specs</td>
<td>5</td>
</tr>
<tr>
<td>DIS_MinDate</td>
<td>Dispensing table Minimum Date for Data Completeness</td>
<td>8</td>
<td>Num</td>
<td>YYMMD10</td>
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<td>DIS.rxdate</td>
<td>See functional specs</td>
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</tr>
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<td>Num</td>
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</tr>
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<td>Procedure table Minimum Date for Data Completeness</td>
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<tr>
<td>DIA_MaxDate</td>
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<td>Num</td>
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<td>DIA.adate</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
## Example Dataset

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<th>DIS_MinDate</th>
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<th>ENR_MinDate</th>
<th>PRO_MinDate</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>DIA_MaxDate</th>
<th>DIS_MaxDate</th>
<th>ENC_MaxDate</th>
<th>ENR_MaxDate</th>
<th>PRO_MaxDate</th>
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</table>

APPENDIX B: PROGRAM PACKAGE OUTPUT IN “MSOC”
### Dataset Description

<table>
<thead>
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<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
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<td>This dataset contains frequency of records stratified by PX_codetype and PX values.</td>
</tr>
</tbody>
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### Variable Attributes

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<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
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<td>Char</td>
<td></td>
<td></td>
<td></td>
<td>Assigned by the SOC and populated by the DP at the site</td>
<td>1</td>
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<tr>
<td>SiteID</td>
<td>1-4 character site identifier. Used in combination with DPID to represent a unique Data Partner.</td>
<td>4</td>
<td>Char</td>
<td></td>
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<td></td>
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<tr>
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<td>Record Count per stratum</td>
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<td>Num</td>
<td>COMMA15.</td>
<td>NA</td>
<td>NA</td>
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Example Dataset

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<tr>
<td>pro_l3_enctype_pxtype_ym</td>
<td>This dataset contains frequency of records stratified by derived year-month, enctype, and px_codetype values.</td>
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</tbody>
</table>

### Variable Attributes

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<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
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<tr>
<td>DPID</td>
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<td>Common Components macro variable DPID</td>
<td>Assigned by the SOC and populated by the DP at the site</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
## Dataset Description

<table>
<thead>
<tr>
<th>DATASET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>pro_l3_px_per_enc_stats</td>
<td>This dataset contains descriptive statistics for the frequency of procedures (distinct px and px_codetype) per patient encounter.</td>
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</table>

## Variable Attributes

<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
<th>ORDER</th>
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<tbody>
<tr>
<td>DPID</td>
<td>2 character Data Partner identifier. Used in combination with SiteID to represent a unique Data Partner.</td>
<td>2</td>
<td>Char</td>
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<td>Common Components macro variable DPID</td>
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<tr>
<td>SiteID</td>
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<td>encounterid</td>
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<td>Num</td>
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<td>encounterid</td>
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APPENDIX B: PROGRAM PACKAGE OUTPUT IN "MSOC"
### Example Dataset

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<th>pxs</th>
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<th>std</th>
<th>min</th>
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<th>p5</th>
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<table>
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<th>p95</th>
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**Dataset Description**

<table>
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<th>DESCRIPTION</th>
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<tbody>
<tr>
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<td>This metadata file contains module-level metadata and basic benchmarking statistics after each module has</td>
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**Variable Attributes**

<table>
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<th>DESCRIPTION</th>
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<th>TYPE</th>
<th>FORMAT</th>
<th>LABEL</th>
<th>SOURCE</th>
<th>DERIVATION</th>
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**Example Dataset**

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