***Build ADS (Analytic Data Set)***

An analytic data set is both a table of variables or columns and information or metadata about the

created columns. The ultimate purpose of analytic data set functions is to build a data set table or

view. Each *Variable Creation* and *Variable Transformation* function must create a table or view

to be joined together via the anchor key columns into a final data set table. This duty is performed

by the *Build ADS* analysis, which joins together the tables or views created by one or more

*Variable Creation* and/or *Variable Transformation* functions.

**Initiate a Build ADS**

Use the following procedure to initiate a new *Build ADS* analysis in Teradata Warehouse Miner:

**1.** Click on the **Add New Analysis** icon in the toolbar:

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**2.** In the resulting **Add New Analysis** dialog box, click on to highlight **ADS** under *Categories*,

and then under *Analyses* double-click on **Build ADS**:



**3.** This will bring up the *Build ADS* dialog in which you will enter INPUT and OUTPUT options

to parameterize the analysis as described in the next sections.

**Build ADS - INPUT - Data Selection**

On the *Build ADS* dialog click on **INPUT** and then click on **data selection**:



On this screen select:

**Available Databases**

All the databases which are available for the *Build ADS* Analysis.

**Available Tables**

All the tables within the Source Database that are available for the *Build ADS* Analysis.

**Available Columns**

All the columns within the selected table that are available for the *Build ADS* Analysis.

**Selected Columns**

Select columns by highlighting and then either dragging and dropping into the **Selected**

**Columns** window, or click on the arrow button to move highlighted columns into the

**Selected Columns** window.

**Build ADS - INPUT - Primary Index**

On the *Build ADS* dialog click on **INPUT** and then click on **primary index**:



If a VIEW has been specified as the input table, a Primary Index must be specified. If no views

were used, this screen may have to be used to adjust the primary indices of the tables specified:

**Available Tables**

All tables specified under data selection **Selected Columns**.

**Available Columns**

All columns specified under data selection **Selected Columns**.

**Selected Primary Index Columns**

Select columns by highlighting and then either dragging and dropping into the

**Selected Primary Index Columns** window, or click on the arrow button to move

highlighted columns into the **Selected Primary Index Columns** window.

**Build ADS - INPUT - Analysis Parameters**

On the *Build ADS* dialog click on **INPUT** and then click on **analysis parameters**:



On this screen select:

**Anchor Table**

This table will be the first table to which all other tables are joined.

**Build ADS - INPUT - Expert Options**

On the *Build ADS* dialog click on **INPUT** and then click on **expert options**:



This screen provides the option to generate a SQL WHERE clause(s) to restrict rows selected for

analysis (for example: cust\_id > 0).

**Build ADS - OUTPUT - Storage**

Before running the analysis, define Output options. On the *Build ADS* dialog click on **OUTPUT**

and then click on **storage**:



**Store the tabular output of this analysis in the database**

Option to generate a Teradata TABLE or VIEW populated with the results of the

analysis. Once enabled, the following three fields must be specified:

**Database Name**

Text box to specify the name of the Teradata database where the resultant Table or

View will be created in. By default, this is the “Result Database.”

**Output Name**

Text box to specify the name of the Teradata Table or View.

**Output Type**

Pull-down to specify Table or View.

**Create Output table using the FALLBACK keyword**

If a table is selected, it will be built with FALLBACK if this option is selected

**Create Output table using the MULTISET keyword**

If a table is selected, it will be built as a MULTISET table if this option is selected

**Generate the SQL for this analysis, but do not execute it**

If this option is selected the analysis will only generate SQL, returning it and terminating

immediately.

**Build ADS - OUTPUT - Primary Index**

Before running the analysis, define Output options. On the *Build ADS* dialog click on **OUTPUT**

and then click on **primary index**:



On this screen, select the columns which comprise the primary index of the output table. Select:

**Available Columns**

A list of columns which comprise the index of the resultant table if an **Output Table** is

used.

**Primary Index Columns**

Select columns by highlighting and then either dragging and dropping into the **Primary**

**Index Columns** window, or click on the arrow button to move highlighted columns into

the **Primary Index Columns** window.

**Run the Build ADS Analysis**

After setting parameters on the INPUT and OUTPUT screens as described above, you are ready

to run the analysis. To run the analysis you can either:

Click the *Run* icon on the toolbar, or

Select **Run <project name>** on the *Project* menu, or

Press the **F5** key on your keyboard

**Results - Build ADS**

The results of running the *Build ADS* analysis include the generated SQL itself, the results of

executing the generated SQL, and, if the Create Table (or View) option is chosen, a Teradata

table (or view).

**Build ADS - RESULTS - Data**

On the *Build ADS* dialog, click on **RESULTS** and then click on **data** (note that the **RESULTS**

tab will be grayed-out/disabled until after the analysis is completed):

