

Data Info Leaders

DW Architect

Example Project

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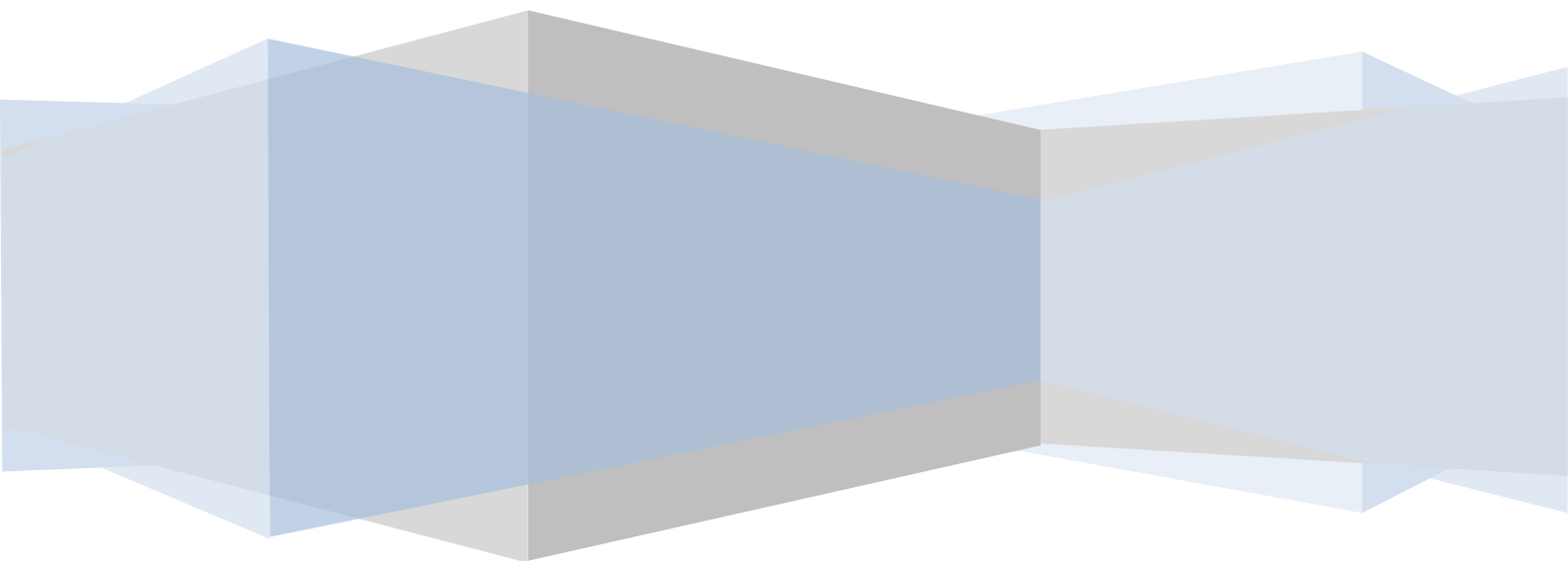


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EXAMPLE PROJECT

The Example Project, is a full working example of a small End to End Data Warehouse, based on the Adventure Works 2008 database. The example is a good way to get a quick understanding of how the application works.

The example project can be found under the DW Architect distributable directory, in the EXAMPLE directory.

DESIGN

To view the design you must:

1. First install DW Architect. The Installation instructions are included with your distributable package .
2. Copy the EXAMPLE project directory to C:\EXAMPLE. This is desirable, so that the example configuration matches your environment.
3. Open Visual Studio, Navigate to the C:\EXAMPLE\PRJ\Adventure Works DW project directory and open the Adventure Works DW.sln Solution. Now you can peruse the Adventure Works Data Warehouse Example project.

The sample contains:

- A Sales Order fact table.
- A Product Dimension.
- A Territory Dimension.
- A Special Offer Dimension.
- A Sales Reason Dimension.

The sample demonstrates:

- Configuration set up.
- Connection set up.
- Source System set up.
- Staging and Extract ETL.
- Data Warehouse and Transform/Load ETL.

For a more in-depth understand, we suggest you do the [Tutorial](#), which takes you through the steps of building key artefacts of the Adventure Works Example Data Warehouse.

GENERATE

DW Architect will generate all the code required to create and maintain the Data Warehouse databases, and execute the ETL.

To Generate the code for the Adventure Works Example Data Warehouse you need the following prerequisites.

Prerequisites:

1. To generate the code you will need access to an Instance of SQL Server 2008, Developer, Standard or Enterprise edition.
2. Install DW Management Console. See the Installation instructions [here](#).
3. Create 2 empty databases on your local SQL Server database. The databases should be named Warehouse_AW and Staging_AW.
4. Install the Source Adventure Works 2008 database. A creation script is included with the Example called Adventure Works 2008 Creation script.sql. This only creates the schema, so when you execute

the Batch it still runs, but with no data. You will probably need to enable FILESTREAM to run this script. Follow the 2 step process described at this [link](#). If you want to run the Batch with data then download the Adventure Works 2008 database from [here](#). Download the AdventureWorks2008 SR4.exe file.

5. Modify the Configuration to suit your local environment. The current configuration assumes your database instance is unnamed (localhost), the project source exists at C:/EXAMPLE. If these assumption are correct you won't need to make changes to configuration. Otherwise the following changes may be necessary.
 - Open DW Management Console.
 - If you are using Vista (or above) Open the AW_Vista.cuf configuration file in the Example Directory. Otherwise open the AW.cuf file.
 - On the Connections tab:
 - a. If necessary, Change the Data Warehouse Connection string to point to your new Warehouse_AW database.
 - b. If necessary, Change the Staging Database Connection String to point to your new Staging_AW database.
 - c. If necessary, Change connection string named 'Adventure Works' to point to your new Adventure Works 2008 source database.
 - d. If necessary, Change the Connection string named 'Staging' to point to your new Staging_AW database.
 - If necessary, On the Generate/Deploy tab, change the Default Generation Output path to a valid path on your computer. Generated code is written to this directory.
 - If necessary, On the Batch Schedule path, change the Batch Schedule path to the location of the Example project.
 - Save you changes.

To Generate the Code:

1. Open DW Management Console.
2. If you are using Vista (or above) Open the AW_Vista.cuf configuration file in the Example Directory. Otherwise open the AW.cuf file.
3. Select Menu item Execute>Generate.
4. Set the DWArchitect Project File path to the path of the .XmlProj file of the Adventure Works Example Data Warehouse project, C:\EXAMPLE\PRJ\Adventure Works DW\Adventure Works DW.XmlProj.
5. Click Execute.
6. A list of the Generated code files will appear, and will be written to your Default Generation Output Path (C:\EXAMPLE\SRC)

DEPLOY

DW Architect can deploy generated code to your target Data Warehouse servers.

To deploy the Example generated code you will need access to an Instance of SQL Server 2008, Developer, Standard or Enterprise edition.

1. Open the configuration utility. If you are using Vista (or above) Open the AW_Vista.cuf configuration file in the Example Directory. Otherwise open the AW.cuf file.
2. and select the **Execute>Deploy** option . Select the 'SQL + DDL Code' from the drop down.
3. Click the **Deploy** button.
4. The code is deployed to your Staging_AW and Warehouse_AW databases.

EXECUTE

DW Batch Manager will execute your ETL Batch based on the workflow and schedule you define. The Example workflow is defined in the AW_Workflow.xml file. To execute the batch you must execute the Batch file distributed with the Example.

If you are using Vista (or above) run the 'AW_Batch_Vista.bat file in a command window with 'Run as Administrator'.

Otherwise run the 'AW_Batch.bat file in a command window.

The Batch status is written to the out.txt file on completion.

Running the batch this way will execute all the tasks, but no Fact data will be written to the Warehouse, because of the date range of data that exists in the Adventure Works 2008 source database. To get data into your Warehouse set the following control properties in the Control_Properties table of the Warehouse_AW database.

- Set the Fact_Sales_Order_Up_To_Date control property '01/07/2001'. This is the first day of data in the AdventureWorks2008 database.
- Set the Current_Batch_Effective_Date control property to 'June 29 2004'.

Also

- Set your computer's system date to 30/06/2004.

Executing the Batch with these settings will bring the Data Warehouse database up to the 29th of June 2004.

Don't Forget to reset your System Date after you run the batch!