4/10/2018 Project 3 - 6127

Contemporary Issues in DB Management Systems (../index.html)

CPSC 6127 (../index.html)

Syllabus (../syllabus.html)

Calendars (../calendar.html#currentWeek)

Misc. (../misc.html)

Project 3: Creating A Data Cube < Previous (project2.html) Next > (project4.html)

Due Date

See the calendar (../calendar.html#currentWeek) for due date.

Objectives

- 1. To become familiar with OLAP data cube creation
- 2. To learn how to work with measures and measure groups
- 3. To learn how to create time dimension and hierarchy
- 4. To learn how to relate dimensions to measures in a data cube

Data Sources:

1. Your MaxMinManufacturingDM-<yourInitials> relational database located on your WBIxx server.

Directions

Complete the following Learn By Doing (LBD) sections:

Note:

- Always open SQL Server Data Tools 'as Administrator' on your virtual machine (by right clicking on the icon, selecting "More >", then "Run as administrator")
- Use MaxMinManufacturingDM-<yourInitials> instead of each reference to MaxMinManufacturingDM
- Use Max Min Manufacturing DM-<yourInitials> instead of each reference to Max Min Manufacturing DM
- 1. Building a Multidimensional BI Semantic Model for the Manufacturing Data Mart (pp. 328-333) Create an OLAP data cube MaxMinManufacturingDM-<yourInitials> on top of your MaxMinManufacturingDM-<yourInitials> data mart relational database
- 2. Working with Measures and Measure Groups (pp. 342-345)
 - Add a measure and a measure group to the data cube and create calculated measures
- 3. Cleaning Up the Dimensions in the MaxMinManufacturingDM-<yourInitials> cube (pp. 347-351)
- Create a time dimension and Date, Material, Plant and Product hierarchies for the cube 4. Relating Dimensions in the MaxMinManufacturingDM-<yourInitials> cube (pp. 351-352)
- Relate cube dimensions to measure groups

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Note: Grading will be performed on your assigned virtual machine.

Rubric:

Points	Item
	Building a Multidimensional BI Semantic Model
/ 10	Creating AS and DM project
/ 10	Creating data source view
/ 10	Creating data cube
	Working with Measures and Measure Groups
/ 15	Adding formatting to a measure, adding measure group
/ 10	Creating the calculated columns
	Cleaning Up the Dimensions in the MaxMinManufacturingDM- <yourinitials> Cube</yourinitials>
/ 10	Creating time dimension
/ 15	Creating hierarchies
/ 5	Hiding unneeded attribute hierarchies
/ 10	Relating Dimensions in the MaxMinManufacturingDM- <yourinitials> Cube</yourinitials>
/ 95	Total

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