

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

CPSC 6127 (../index.html)

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Project 2: Populating Data Mart Using Integration Services < Previous (project1.html) Next > (

Due Date

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

Objectives

1. To populate a data mart with data from the company accounting system (SQL Server MaxMinAccounting database (MaxMinAccountingSystem Database Install.zip)) and manufacturing automation system (BatchInfo.csv (BatchInfo.csv) file) using Integration Services
2. To add a new fact table to an existing data mart
3. To populate the fact tables in a data mart using Integration services
4. To become familiar Integration Services packages
5. To learn about the Integration Services package components and development
6. To learn how to create control flow tasks
7. To learn how to create data flow tasks
8. To learn how to create data sources, transformations, destinations

Data Sources:

1. MaxMinAccounting and OrderProcessingSystem relational databases from your Project 1 (project1.html). These resources will be used as input data sources to populate the data mart.

Directions

Complete the following Learn By Doing (LBD) sections:

1. **Using Integration Services to Populate the Maximum Miniatures Manufacturing Data Mart Dimensions (pp. 248-255)**
 - Always open SQL Server Data Tools 'as Administrator' on the VM (by right clicking on the icon, selecting "More >", then "Run as administrator")
 - Use MaxMinManufacturingDMLoad-<yourInitials> instead of MaxMinManufacturingDMLoad for the project name.
 - Use MaxMinManufacturingDM-<yourInitials> instead of MaxMinManufacturingDM for the database name.

You get to create and run an IS package that loads data into dimension tables of the MaxMinManufacturingDM-<yourInitials> data mart.
2. **Adding a Second Fact Table to the Manufacturing Data Mart (pp. 286-287)**

Using SSMS, add a new fact table to the MaxMinManufacturingDM-<yourInitials> data mart.
3. **Populating the Fact Tables in the Manufacturing Data Mart (pp. 287-301)**

Using SSIS, create an IS package that loads data into the fact tables of your MaxMinManufacturingDM-<yourInitials> data mart. The input data are loaded from the BatchInfo.csv (BatchInfo.csv) file and the OrderProcessingSystem relational database.

Note: Grading will be performed on your BICxx server.

Your MaxMinManufacturingDM-<yourInitials> data mart has to be populated with data.

Rubric:

Points	Item
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	Population of the MaxMinManufacturingDM-<yourInitials> dimensions
____ / 10	Creating IS project, data source, data destinations
____ / 10	Additioanl data flow
____ / 10	Creating the load Plant, Material-Machine Type-Machine flow
____ / 5	Execution of the IS package
____ / 5	Adding second fact table to MaxMinManufacturingDM-<yourInitials>
	Population of the MaxMinManufacturingDM-<yourInitials> fact tables
____ / 5	creating project connection manager
____ / 10	creating the load DimBatch data flow
____ / 10	creating the load ManufacturionFact data flow, derived column data flow, lookup data flow
____ / 10	creating data destination item, data destination for errors
____ / 10	creating the InventoryFact data flow, lookup, and data conversion data flow items
____ / 10	creating data destination data flow, data destination for errors
____ / 5	execution of the IS package
____ /100	Total