Microsoft Fabric in a Day Lab Manual – Lab 6

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# Lab 6: Data Warehousing – Designing Your Data Warehouse Strategy in Fabric

## Introduction:

In this lab, we will be creating a new Fabric Warehouse to be used as the “Gold” layer in our medallion pattern. We will work through several patterns related to how to load our warehouse such as views, cross-database joins, and CTAS (Create Table As Select) statements.

## Part 1: Creating the Warehouse

1. Navigate to the Warehouse experience of your workspace

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1. Click Warehouse from the tiles across the top

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1. Name it “Warehouse\_{your\_initials}” and click Create

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1. You will now have an empty Fabric Warehouse and are done with Part 1 of this lab

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## Part 2: Creating and Loading a Table Using TSQL

In this exercise, you’ll use TSQL to create a table in the Warehouse. You’ll then load data into the newly created table.

1. Navigate to the Fabric Warehouse from the workspace landing page

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1. Click New SQL Query from the top action ribbon

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1. Write the create table statement shown in the image below and click Run
   1. You can also refer to the lab file “Lab 6 - Create and Load Customer Dimension”

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1. The schema of the warehouse will now be updated to reflect the empty table that was created

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1. Click New SQL Query again from the top ribbon and choose a blank query

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1. Click the “+ Warehouses” button from the explorer, check the box for the Lab 1 Lakehouse, and click Connect

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1. In the query window, write the following SELECT statement using the click+drag functionality to populate the three-part table identifier from the previous lab and click Run

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1. Click the dim\_customer table from the Fabric Warehouse explorer to preview the newly loaded data

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1. You’re now done with Part 2 of this lab

## Part 3: Creating and Loading a Table Using CTAS (CREATE TABLE AS SELECT)

In your Fabric Warehouse, you can also combine the create and load table process by utilizing the CREATE TABLE AS SELECT functionality. If needed, use the supporting “Create and Load Location Dimension” file from the lab coursework.

1. Navigate to the Fabric Warehouse from the workspace landing page

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1. Click New SQL Query from the top action ribbon

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1. In the query window, write the following SQL statement using the click+drag functionality to populate the three-part table identifier from the previous lab and click Run

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1. You’ll now have the dim\_location table added to the schema of your Fabric Warehouse for previewing

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## Part 4: Creating Remaining Objects

For the last part of this lab, we’ve provided you the code to create the remaining tables using the CTAS method. You’ll need to use the supporting file to copy/paste the SQL statements into your Fabric Warehouse query editor.

1. Copy the SQL queries from the supporting “Lab 6 - Fabric Warehouse CTAS Statements” document and paste them into a new query in the Fabric Warehouse query editor

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1. Replace the Lakehouse naming with the correct naming of your bronze and silver Lakehouse artifacts and click run

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1. You should have a total of 6 tables in your model A screenshot of a computer

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2. You are now done with lab 6