Advanced Power BI

Lab Guide

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Module 1 Exercises
PowerBI Review

Exercise 1 – AdventureWorks Data Warehouse Lite

The AdventureWorksLightDW csv files are exports of a sample database provided by Microsoft. This is a data warehouse that is designed in a Star Schema.

1. Open a new report in PowerBI. Navigate to `DatFiles/AdventureWorskLightDW` and load the CSV files into your new PowerBI report file.

   ```
   DimCategory
   DimCustomer
   DimDate
   DimProduct
   DimPromotion
   DimSalesTerritory
   FactInternetSales
   ```

2. Save and Load the data. Ensure that each dimension table in the model is related to the fact table through the Key fields.

   Note: FactInternetSales has 3 date keys. For this exercise you just need to create a relationship for the **OrderDateKey**.

3. Create a report with some visuals of your choice to test the model.

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Module 2 Exercises
Scrubbing Source Data with Power Query

Exercise 1 – Using PowerQuery to perform ETL

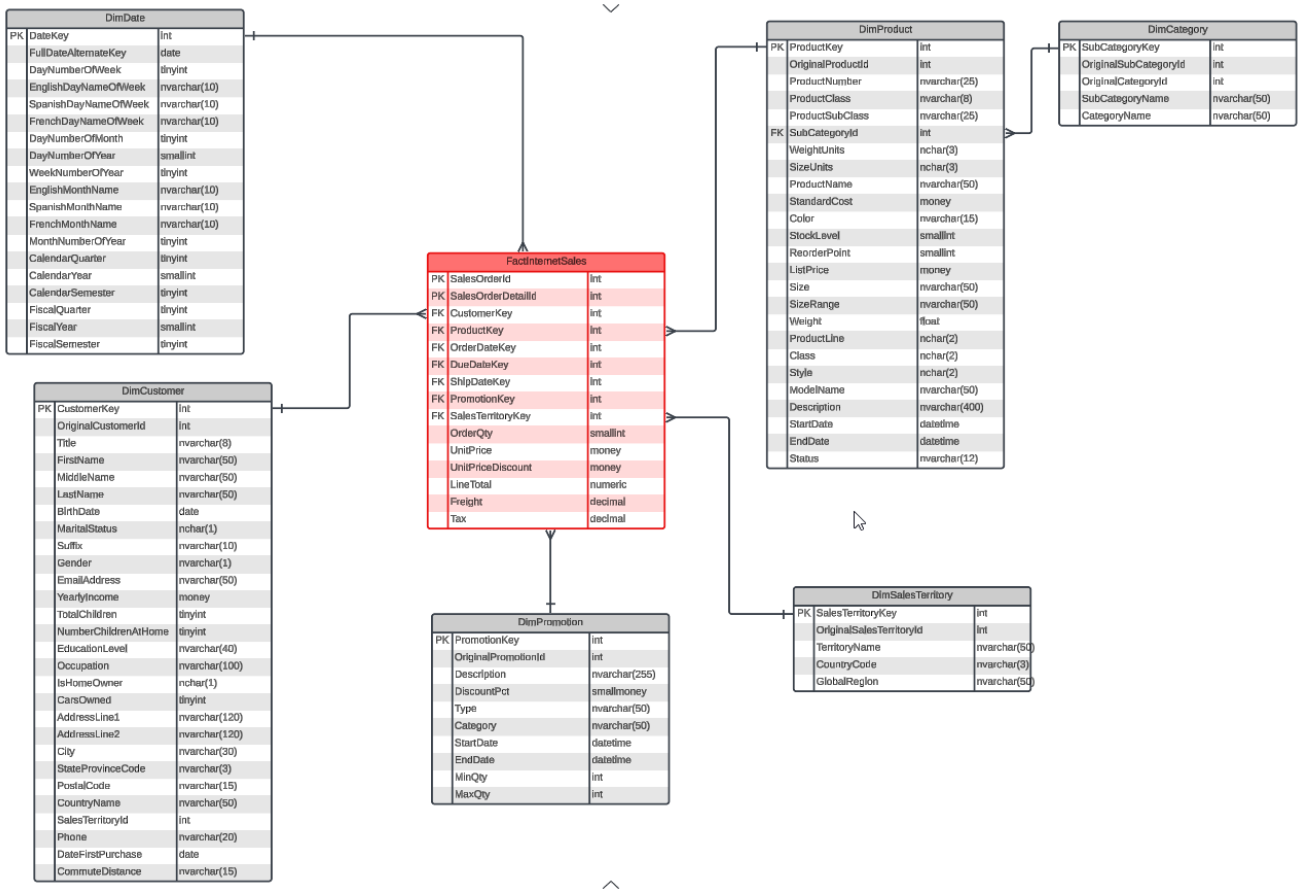
In this exercise you will import raw data from CSV files

1. Using Power BI Desktop, create a new report and save it to your exercises folder.

   `02_AdventureWorks_PowerQuery_ETL.pbix`

2. Using the PowerQuery editor, import the csv files from the DataFiles/AdventureWorksLight folder. Cleans the data to match the AdventureWorksLightDW star schema (the schema diagram is in the pdf file in the).

   NOTE: you will NOT create the DimDate dimension during this exercise.



3. Remember to Merge the following tables

```
SubCategories – Categories -> DimCategory
SalesOrderHeader – SalesOrderDetails -> FactSales
```

4. Test your model by creating a report.

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