

# **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.



# Module 2 Exercises

## Scrubbing Source Data with Power Query

### Exercise 1 – Using PowerQuery to perform ETL

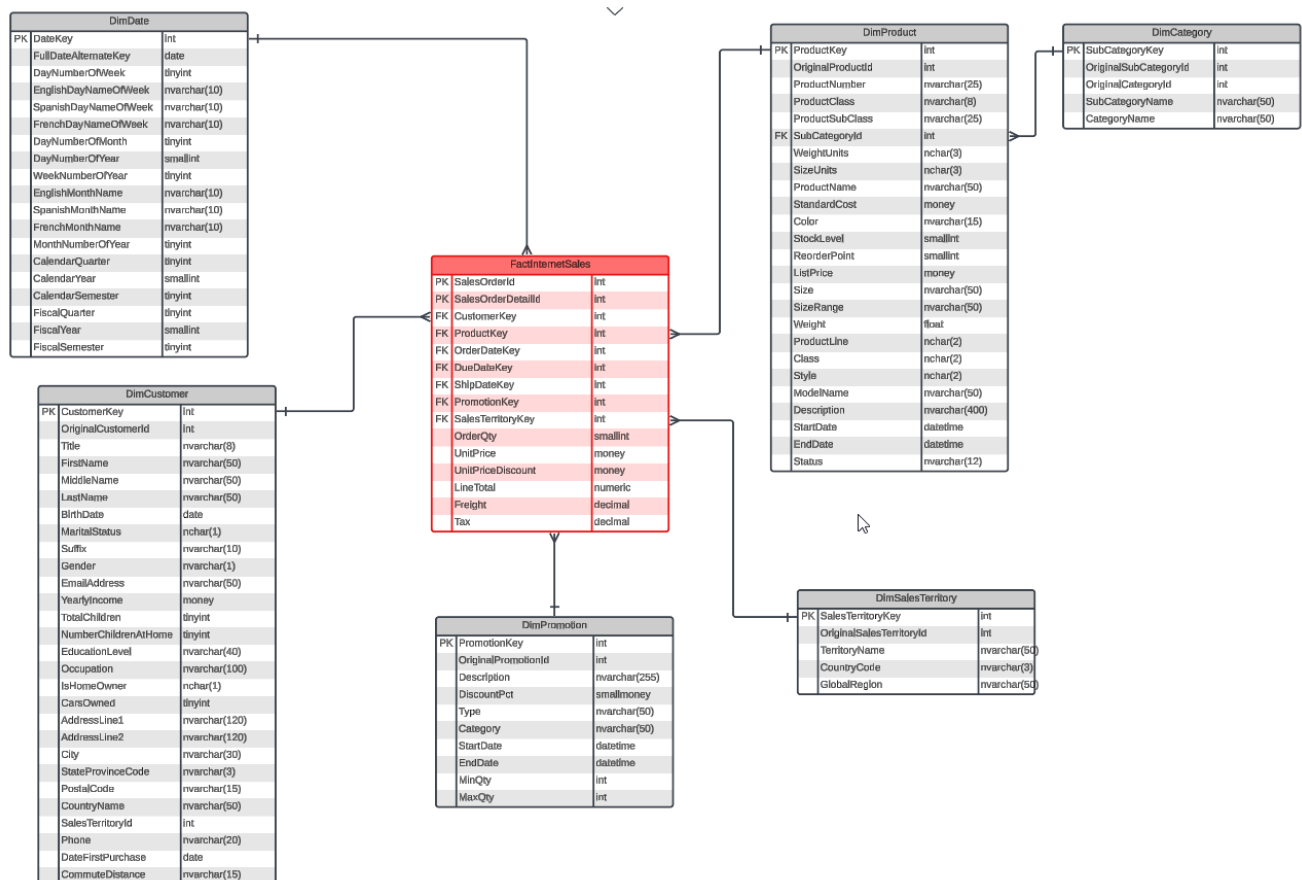
In this exercise you will import raw data from CSV files

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.