# **PROJECT LUNA**

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## **ADVENTUREWORKS SALES REPORTS AND ANALYSIS**

#### **OVERVIEW**

### 1. Project background and description

Project Luna aims to generate sales reports to deliver factual sales insights to end-users.

#### 2. Project scope

The AdventureWorks database will be the data source, specifically from the following tables:

- Sales Order Header
- Sales Order Detail
- Sales Territory
- Product

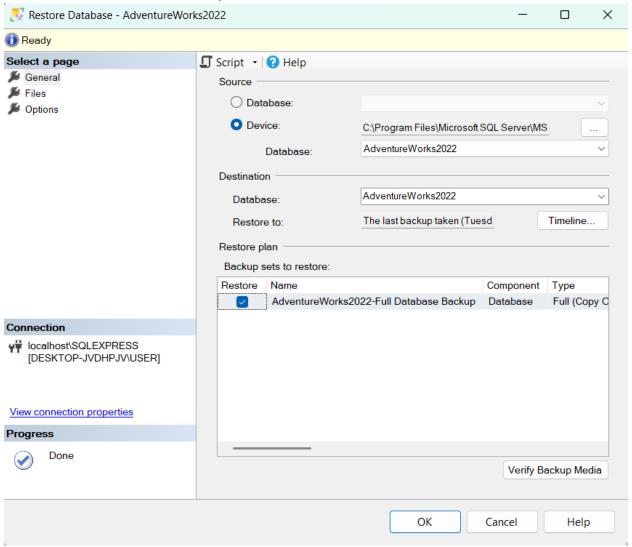
See: AdventureWorks Database

#### 3. Deliverables

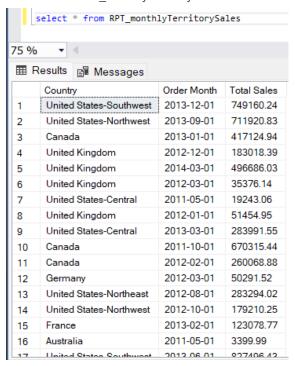
The project will deliver a fully functional database in Microsoft SQL Server Management Studio (SSMS), including Stored Procedures that will generate tables which contain the sales reports. An Excel Worksheet will also be created which will show the same reports as what's in the database.

#### **DATABASE REPORTS**

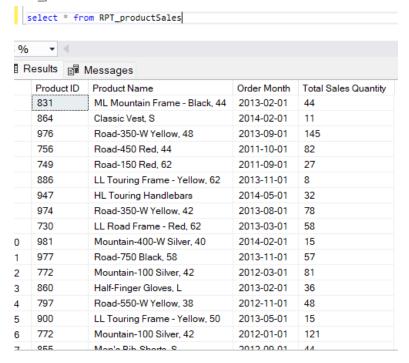
AdventureWorks database .bak (backup) file was downloaded from the Microsoft website. The file is then restored in SSMS. This will load tables and other objects to the local SQL server.



BLD\_RPT\_monthlyTerritorySales stored procedure has been created to generate a monthly territory sales report table named RPT monthlyTerritorySales.



BLD\_RPT\_productSales stored procedure has been created to generate a monthly product sales report table named RPT\_productSales.

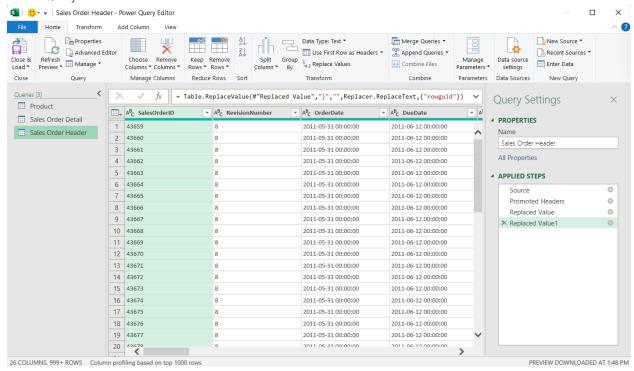


Stored procedure scripts can be viewed in Project Luna's github repository https://github.com/marielle92/luna

#### **EXCEL WORKSHEET REPORTS**

Sales Order Header, Sales Order Detail, Sales Territory, and Product tables were exported as CSV files from SSMS. These four files are then imported into an Excel file.

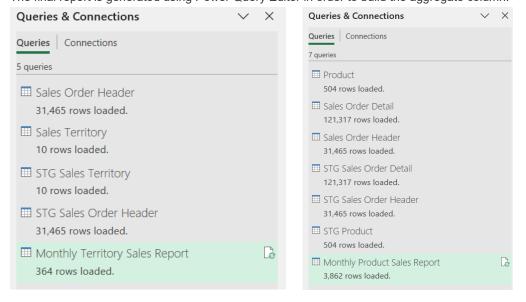
It is good practice to import the data exactly as it was from their source. However, Excel automatically formats each column according to its detected data types. To revert the data back to original, the formats are fixed using Excel's Power Query Editor.



Staging tables have been created to remove unused columns, rectify the data types, and transform records into the proper format.

Temporary tables have been created to combine data across the staging tables using XLOOKUP.

The final report is generated using Power Query Editor in order to build the aggregate column.



The Excel files for both report can be viewed in Project Luna's github repository—<a href="https://github.com/marielle92/luna">https://github.com/marielle92/luna</a>