

POWER BI REPORT 1

Introduction to Power BI

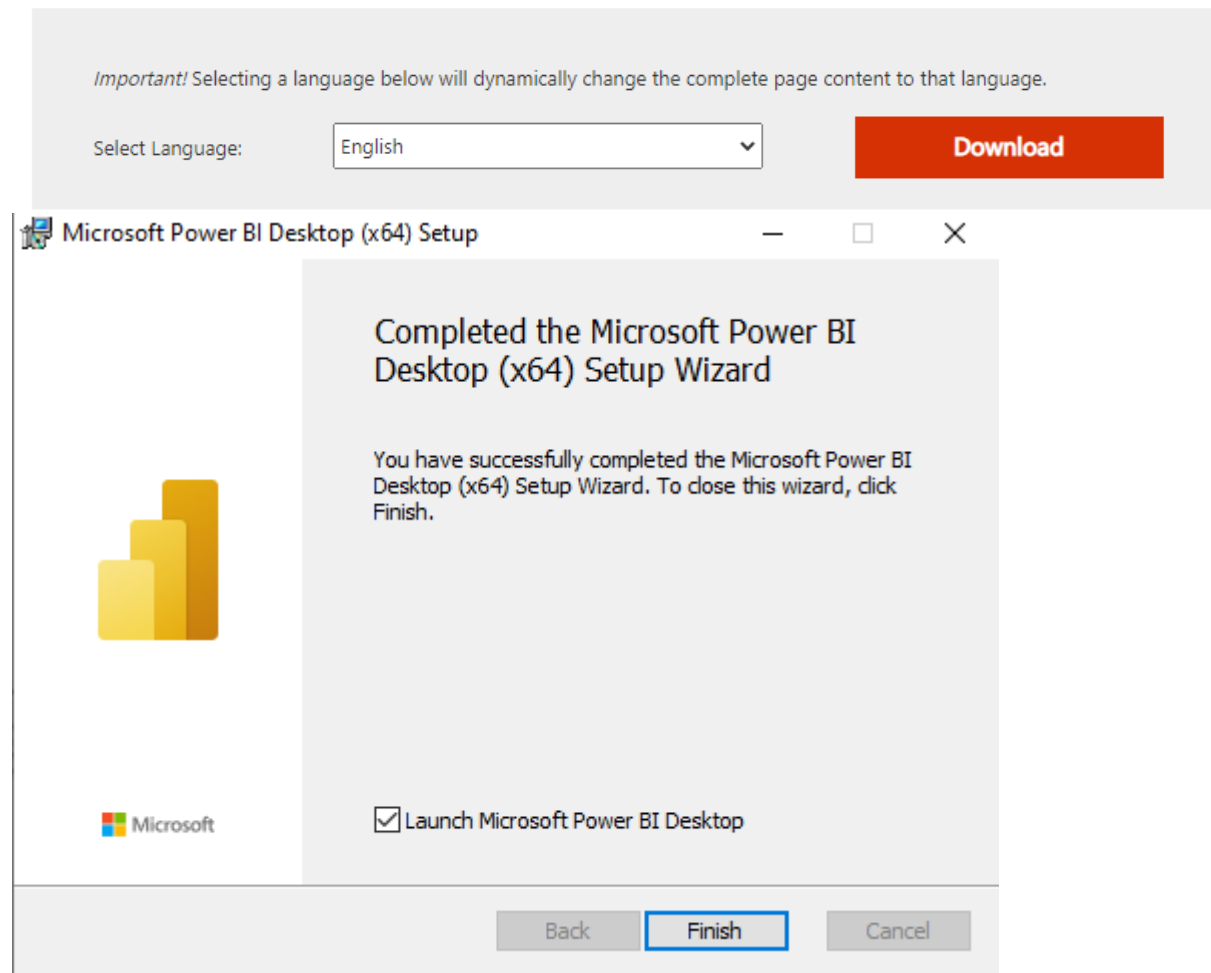
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1. POWER BI INSTALLATION

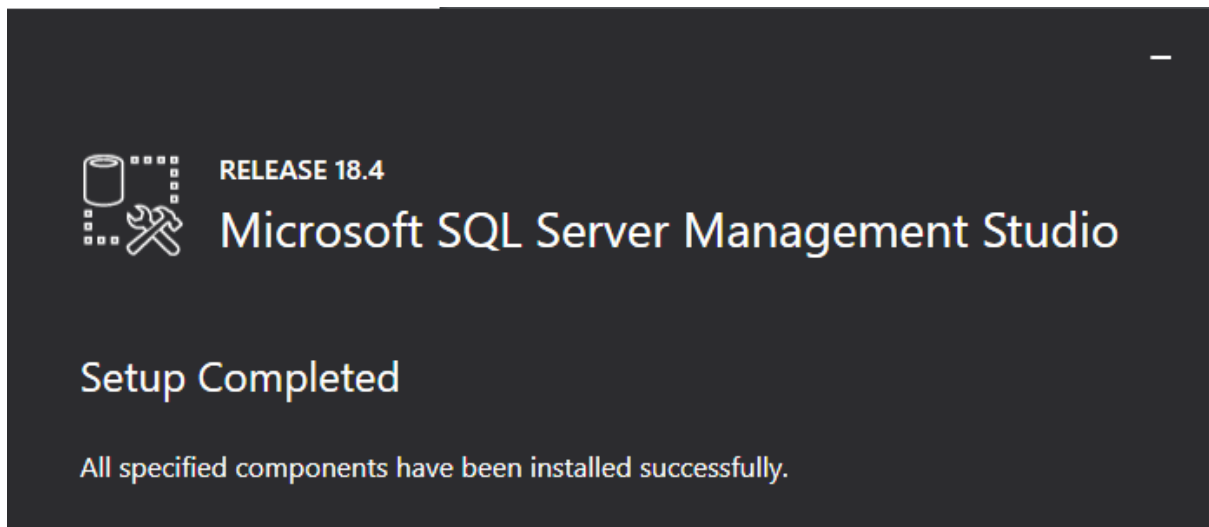
Run PBIDesktopSetup.exe. Select English language in the first window:

Microsoft Power BI Desktop



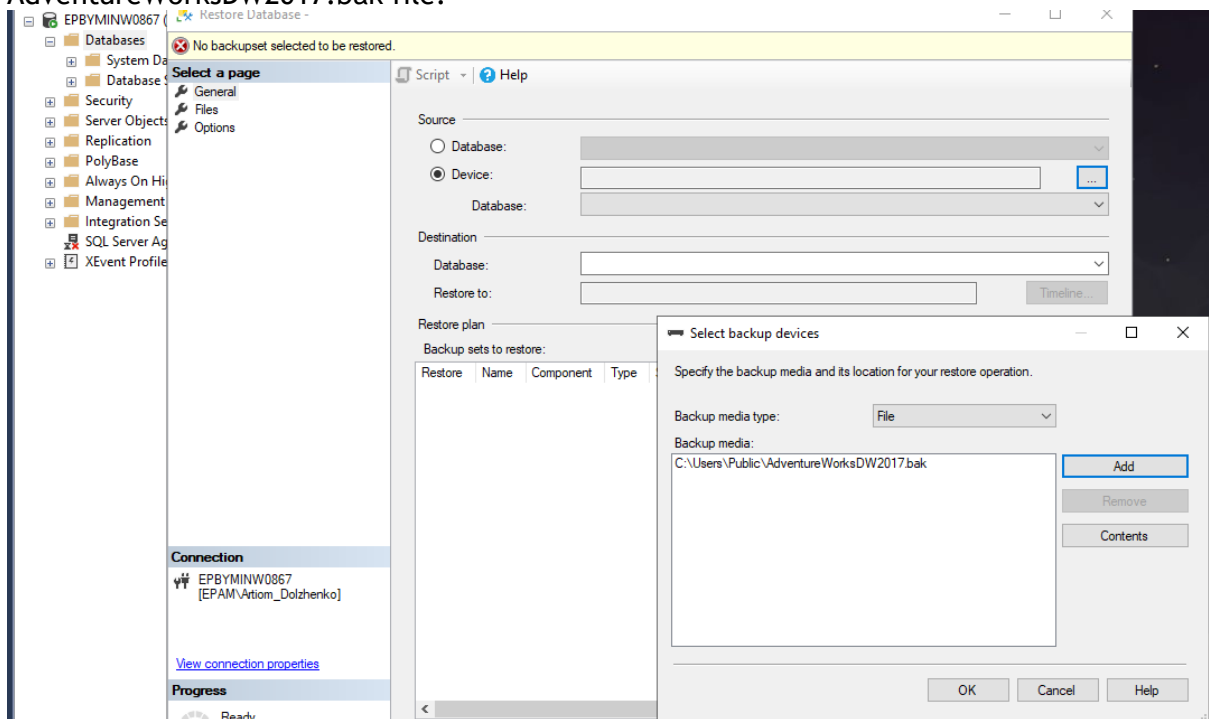
Launch Power BI Desktop and login using your account:

2. INSTALL SQL MANAGEMENT STUDIO



3. INSTALL ADVENTURE WORKS DWH

Inside the opened window select Device and click on '...' button. Click 'Add' and select the AdventureWorksDW2017.bak file:



4. BUILDING A SIMPLE POWER BI REPORT

4.1 LOAD DATA

In Power BI Desktop Press Edit Queries and click on New Source in the opened window. In the Get Data window choose SQL Server Database and click Connect

Windows

Database

Microsoft account

SQL Server database

ep728174\sqlexpress

Use your Windows credentials to access this database.

☒ Use my current credentials
 ☐ Use alternate credentials

User name

Password

Waiting for ep728174\sqlexpress.

Back

Connect

Cancel

4.2 BASIC DATA TRANSFORMATION

1P	A ^B _C FirstName - Copy	A ^B _C LastName - Copy
	Jon	Yang

Merge Columns

Choose how to merge the selected columns.

Separator

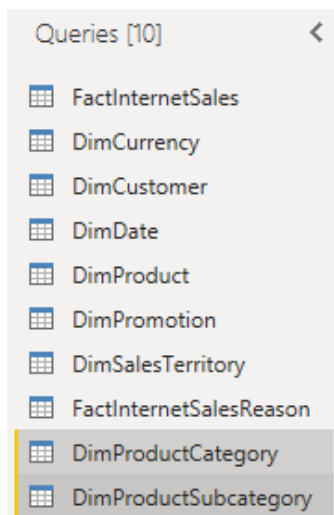
Space

New column name (optional)

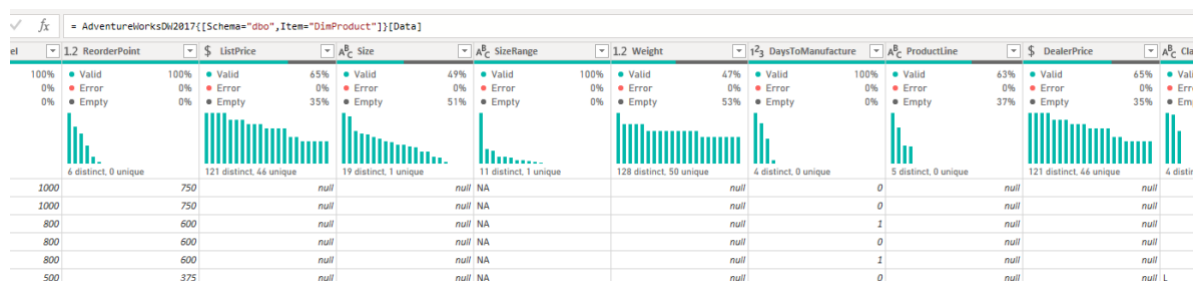
Full Name

1P	1 ² ₃ Subtraction
	1309
	1095
	1095
	1095
	1095
	1095
	46
	30
	61
	76
	30
	45
	91
	91
	31
	60

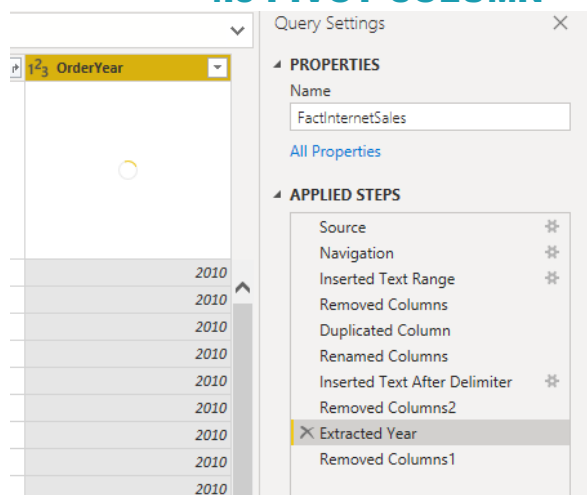
4.3 ADDING NEW TABLES



4.4 DATA PROFILING



4.5 PIVOT COLUMN



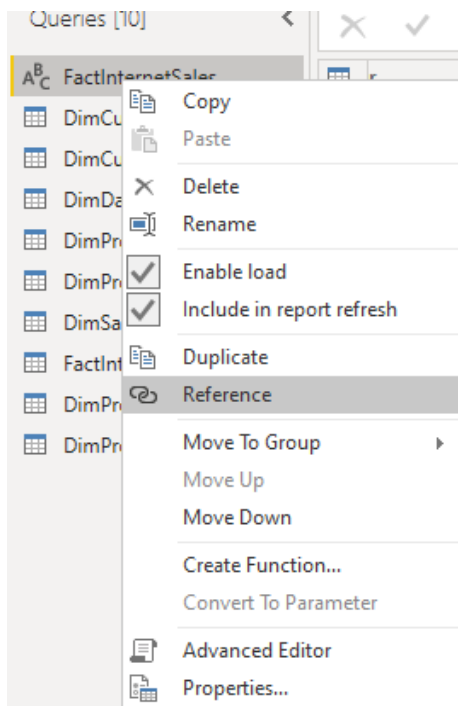


Table 1: FactInternetSales (Selected Columns)

OrderYear	DiscountAmount	OrderQuantity	SalesAmount
2010	0	1	3,578.27
2010	0	1	3,399.99
2010	0	1	3,399.99
2010	0	1	699.10
2010	0	1	3,399.99
2010	0	1	3,578.27
2010	0	1	3,578.27

Table 2: FactInternetSales (Pivoted by OrderYear)

DiscountAmount	OrderQuantity	2010	2011	2012	2013	2014
0	1	43,421.04	7,075,525.93	5,842,485.20	16,351,550.34	45,694.72

4.6 TABLE JOINING

fx = Table.SelectColumns(#"Renamed Columns",{ "ProductKey", "SalesAmount", "OrderYear",

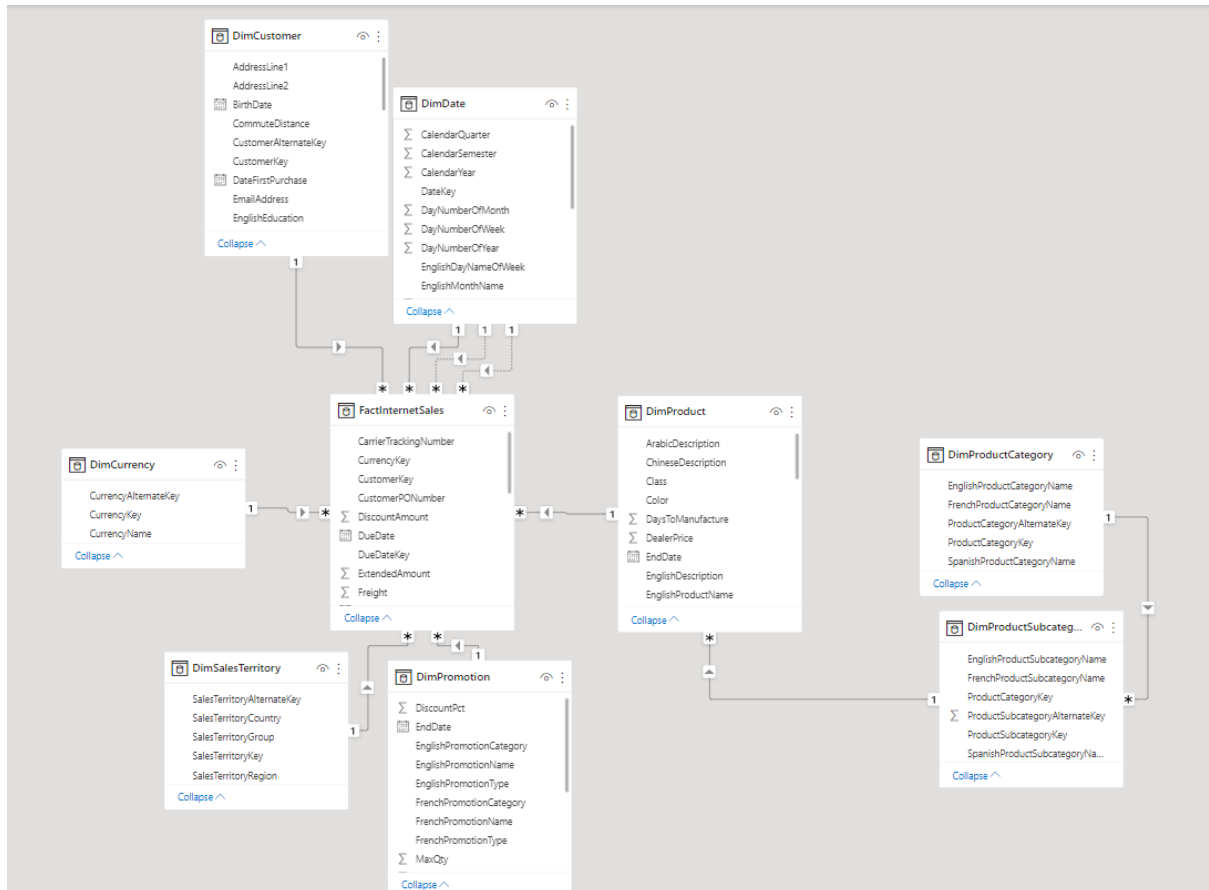
ProductKey	SalesAmount	OrderYear	SalesTerritoryKey
1	310	3,578.27	2010
2	346	3,399.99	2010
3	346	3,399.99	2010
4	336	699.10	2010
5	346	3,399.99	2010
6	311	3,578.27	2010
7	310	3,578.27	2010
8	351	3,374.99	2010
9	344	3,399.99	2010
10	312	3,578.27	2010

ProductKey	SalesAmount	OrderYear	SalesTerritoryKey	DimSalesTerritory.SalesTerritoryCountry
1	310	3,578.27	2010	6 Canada
2	346	3,399.99	2010	7 France
3	346	3,399.99	2010	1 United States
4	336	699.10	2010	4 United States
5	346	3,399.99	2010	9 Australia
6	311	3,578.27	2010	4 United States
7	310	3,578.27	2010	9 Australia
8	351	3,374.99	2010	9 Australia

ProductKey	DimSalesTerritory.SalesTerritoryCountry	DimProduct.EnglishDescription	Custom.ProductCategoryKey	DimProductCategory.EnglishProductCategoryName
6 Canada	This bike is ridden by race winners. Developed with the Adventure Wo...	1 Bikes		
7 France	Top-of-the-line competition mountain bike. Performance-enhancing o...	1 Bikes		
6 Canada	This bike is ridden by race winners. Developed with the Adventure Wo...	2 Components		
6 Canada	This bike is ridden by race winners. Developed with the Adventure Wo...	3 Clothing		
6 Canada	This bike is ridden by race winners. Developed with the Adventure Wo...	4 Accessories		
7 France	Top-of-the-line competition mountain bike. Performance-enhancing o...	2 Components		

4.7 GROUPING DATA

4.9 IMPORT VS DIRECT QUERY



5. CREATE LAB REPORT

Create lab report and commit to gitlab the below artifacts:

1. Word document with screenshots and progress description
2. PBIX file with the resulting report.