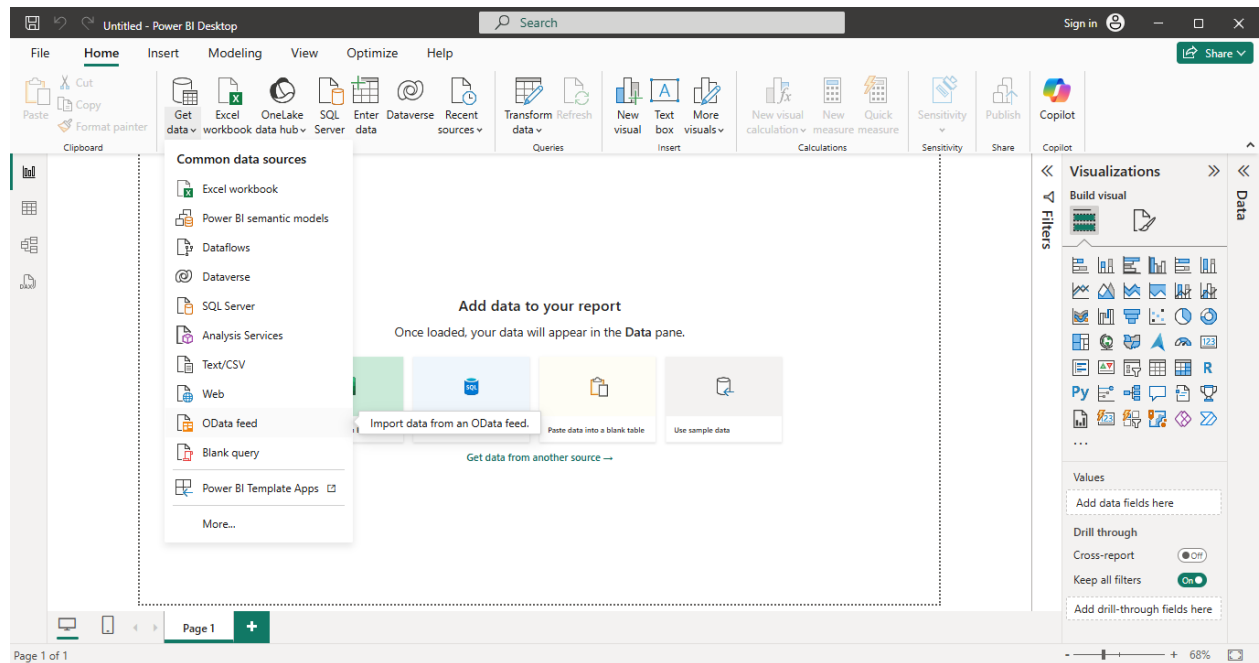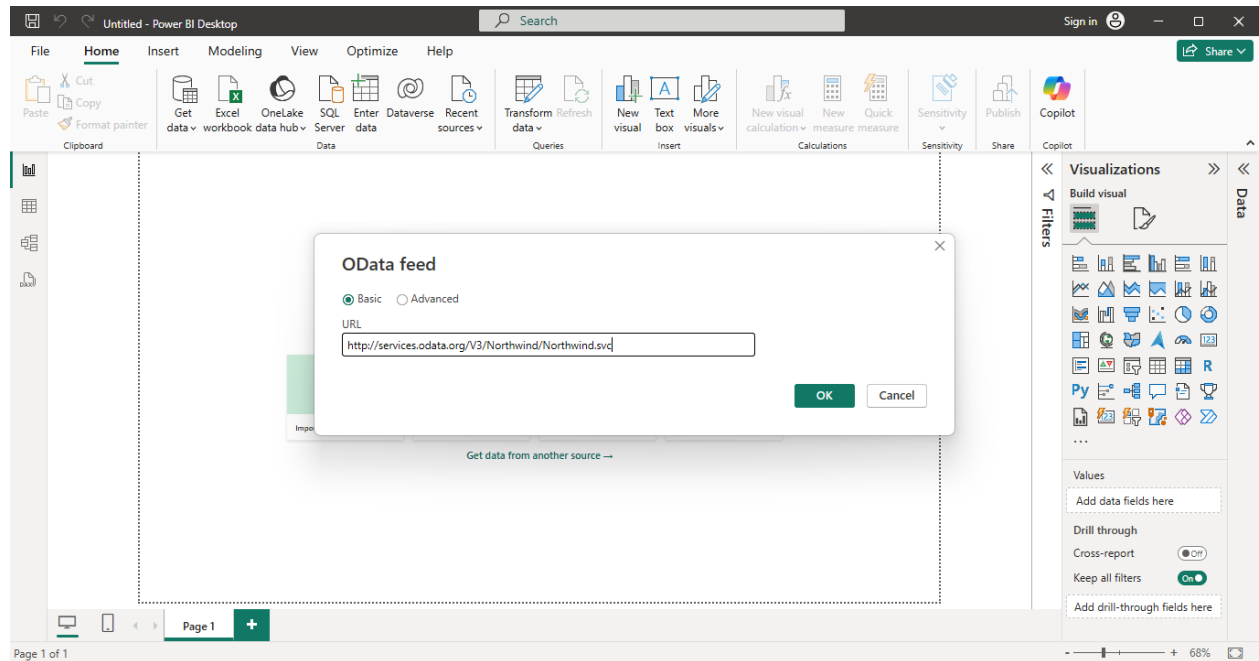# Practical 1

Aim: Import the legacy data from different sources such as (Excel, SqlServer, Oracle etc.) and load in the target system.

1) Launch Power BI Desktop.

2) From the Home ribbon, select 'Get Data'. Select 'OData feed'.

Name: Suraj Vishwakarma

Roll No.: IT22096

Class: TYBSc IT

Subject: Business Intelligence and Data Analytics

Sem: VI

Date: 13/01/2025

3) In the OData Feed Dialog box, paste the URL for the Northwind OData feed. Select OK.

4) In the Navigator pane, select Order_Details, Orders and Products tables. Click 'Transform Data'.

Name: Suraj Vishwakarma

Roll No.: IT22096

Class: TYBSc IT

Subject: Business Intelligence and Data Analytics

Sem: VI

Date: 13/01/2025
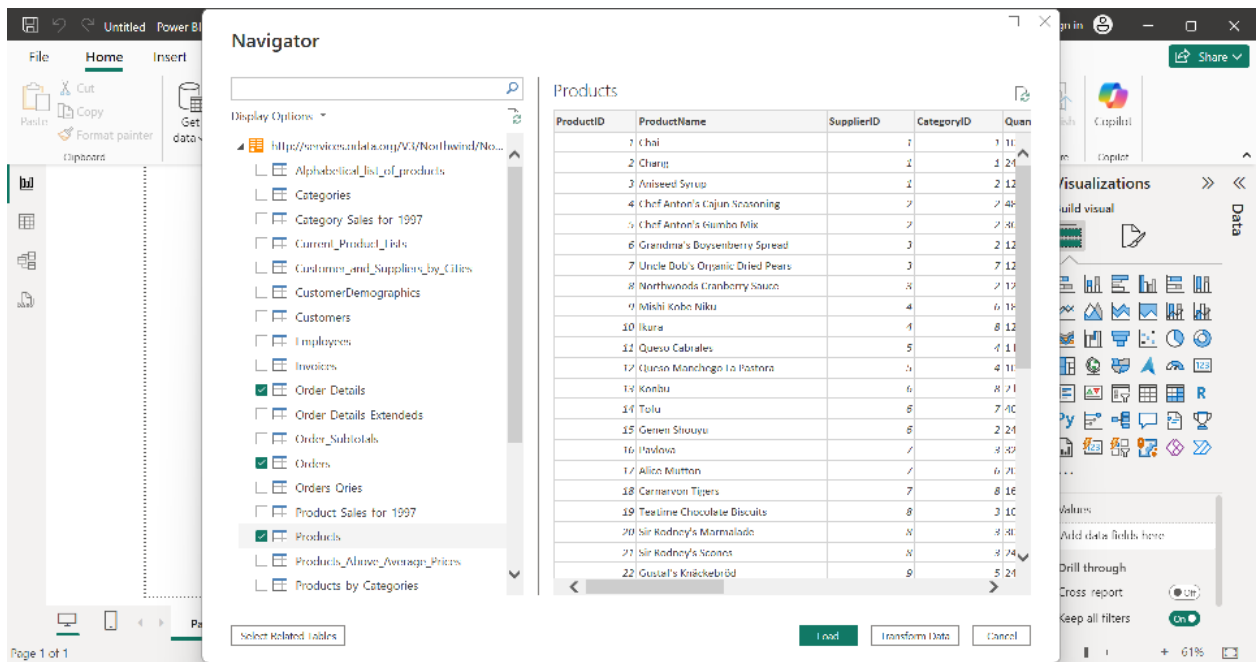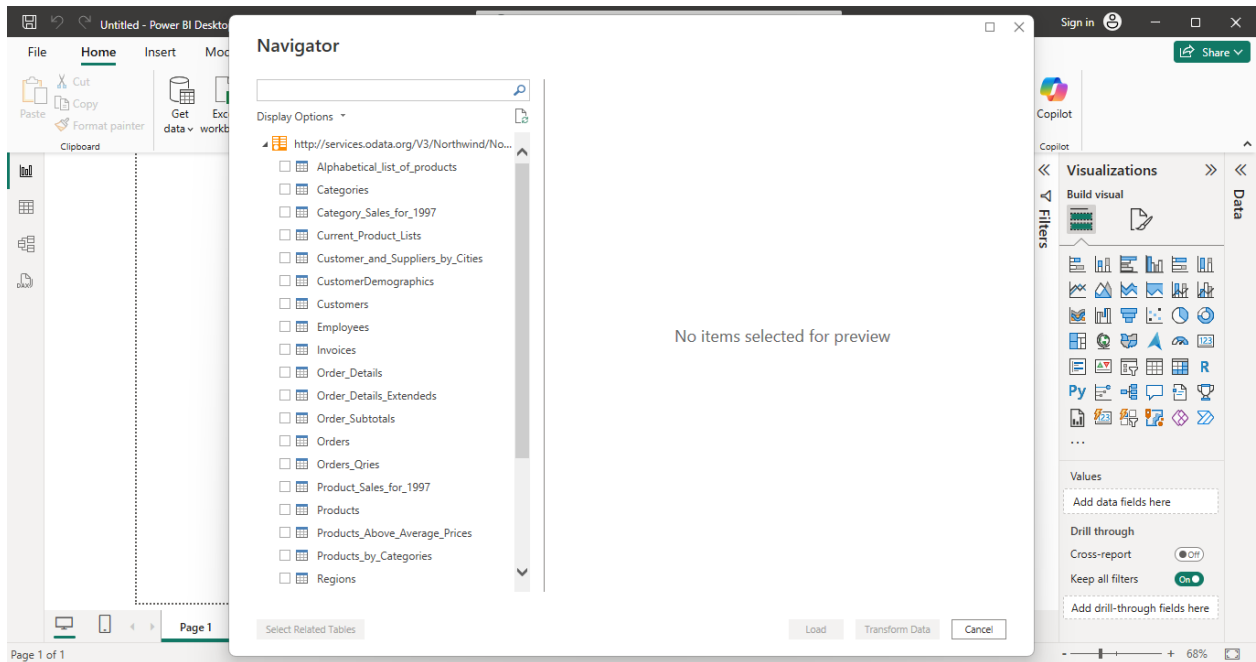
Practical 2

Aim: Perform the Extraction Transformation and Loading (ETL) process to construct the database in the Sqlserver / Power BI.

ETL PROCESS IN POWER BI

1) Remove all columns except ProductID, ProductName, UnitsInStocks and QuantityPerUnit.

2) Change the data type of UnitsInStock column to Whole Number. Right click on UnitsInStock column, go to Change Type, click Whole Number.

3) Expand the Order_Details table that is related to the Orders table, to combine the ProductID, UnitPrice and Quantity columns from Order_Details into the Orders table.

4) Go to Add Column ribbon, select Custom Column. Calculate the Line Total for each Order_Details row.

Name: Suraj Vishwakarma

Roll No.: IT22096

Class: TYBSc IT

Subject: Business Intelligence and Data Analytics

Sem: VI

Date: 13/01/2025

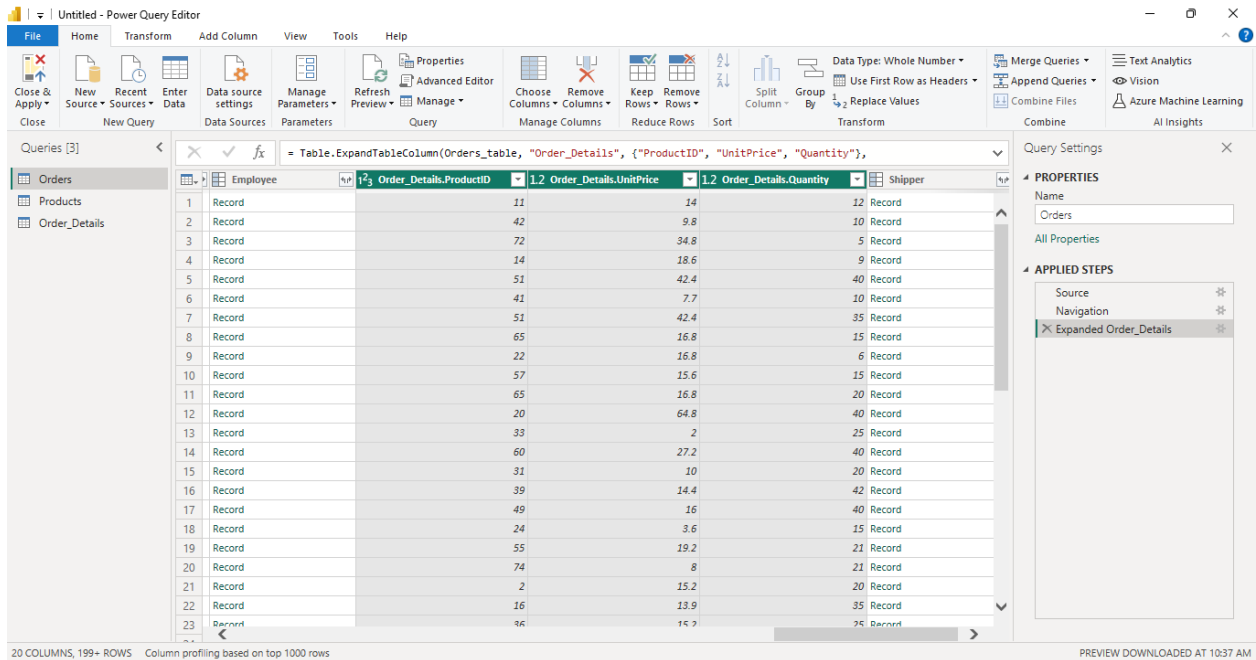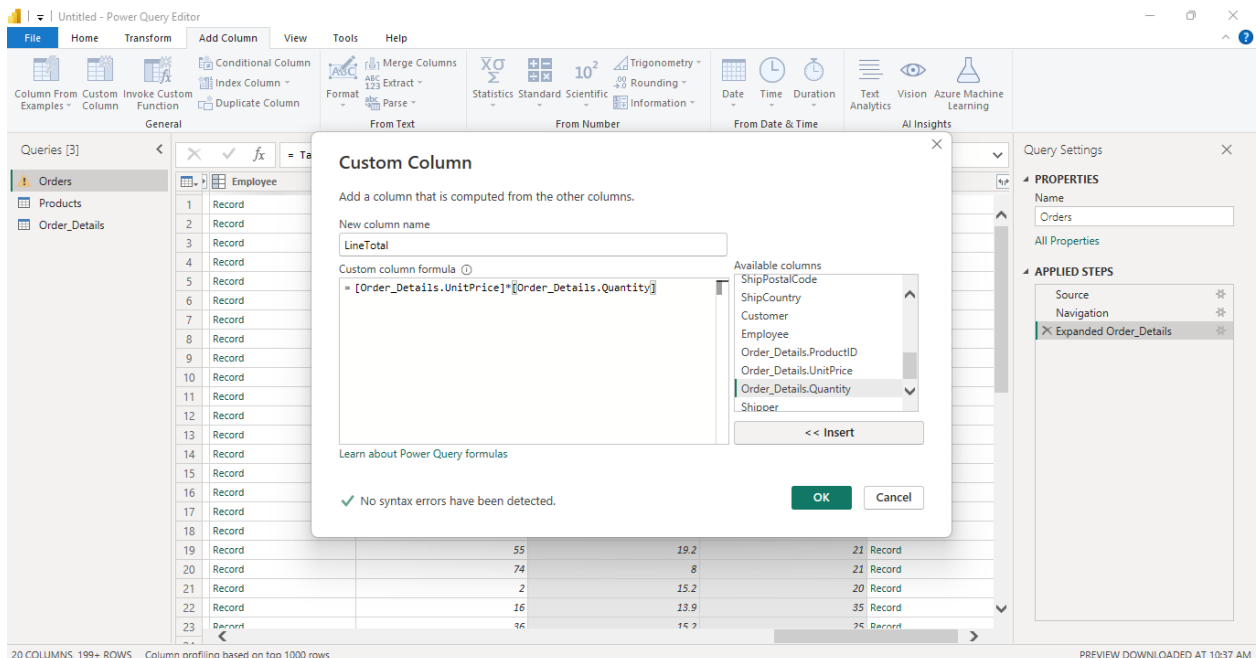5) Drag the Line Total column to the left of ShipCountry. Rename Line Total as Total. Remove the Order_Details. prefix from Order_Details.ProductID, Order_Details.UnitPrice, Order_Details.Quantity columns by double-clicking on each column header.

Name: Suraj Vishwakarma

Roll No.: IT22096

Class: TYBSc IT

Subject: Business Intelligence and Data Analytics

Sem: VI

Date: 13/01/2025

6) From the Home ribbon, select Close & Load.

7) Once the data is loaded, you can view the tables in Relationship View. Select the Manage Relationship button from Home ribbon. Click on the New button.
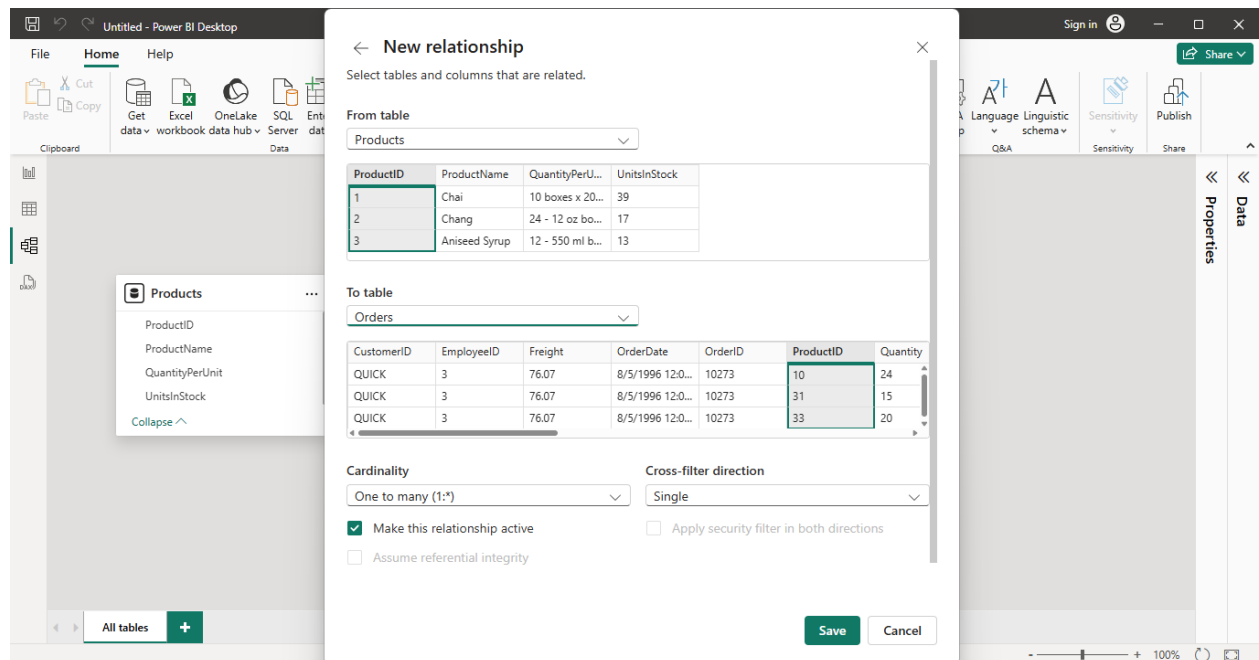
8) Select Products and Orders Table and click Save.

Name: Suraj Vishwakarma

Subject: Business Intelligence and Data Analytics
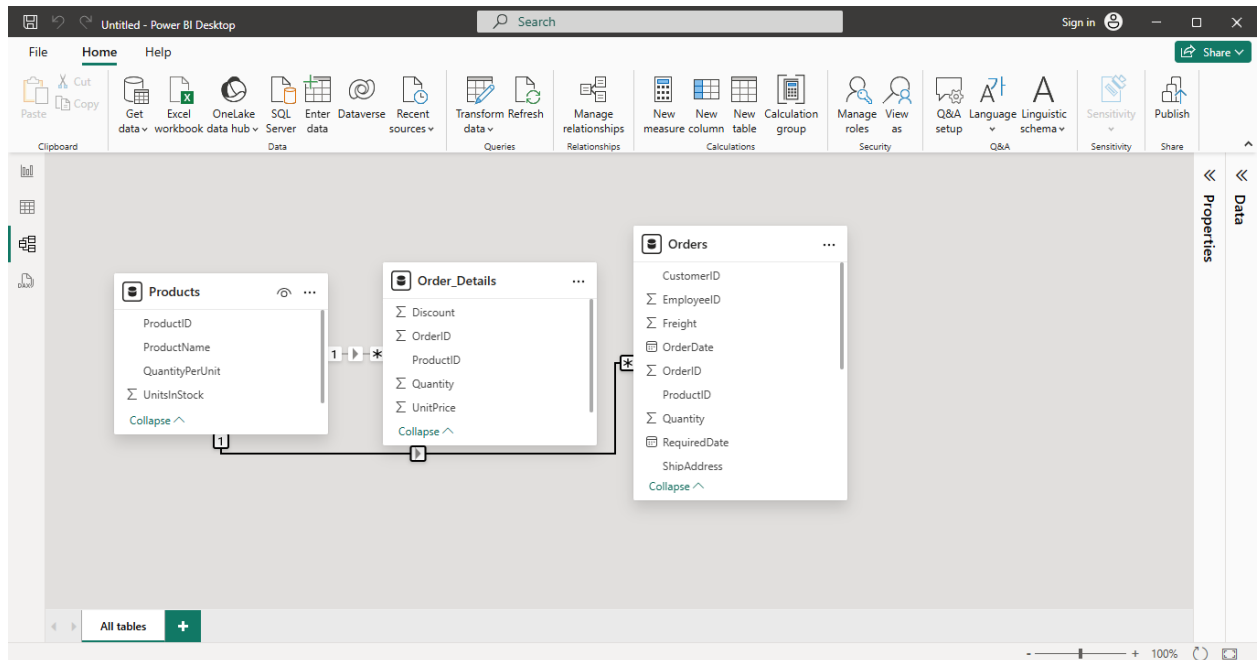
Roll No.: IT22096

Sem: VI

Class: TYBSc IT

Date: 13/01/2025

Name: Suraj Vishwakarma
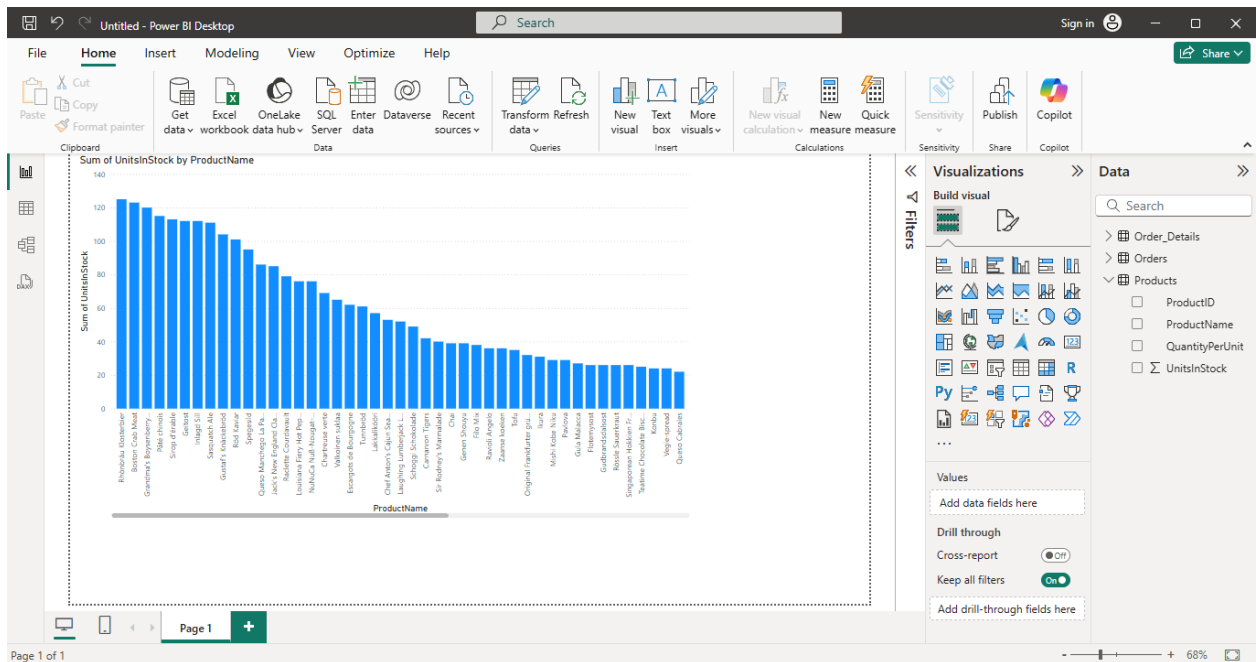
Roll No.: IT22096

Class: TYBSc IT

Subject: Business Intelligence and Data Analytics

Sem: VI

Date: 13/01/2025

# Practical 3

Aim: Data Visualization from ETL Process

1) Create a Clustered Column Chart showing Units in Stock by Product and Total Sales by Year.

2) Insert a map visualization. Drag ShipCountry to the Location field and Total to Legend field.

Name: Suraj Vishwakarma

Roll No.: IT22096

Class: TYBSc IT

Subject: Business Intelligence and Data Analytics

Sem: VI

Date: 13/01/2025
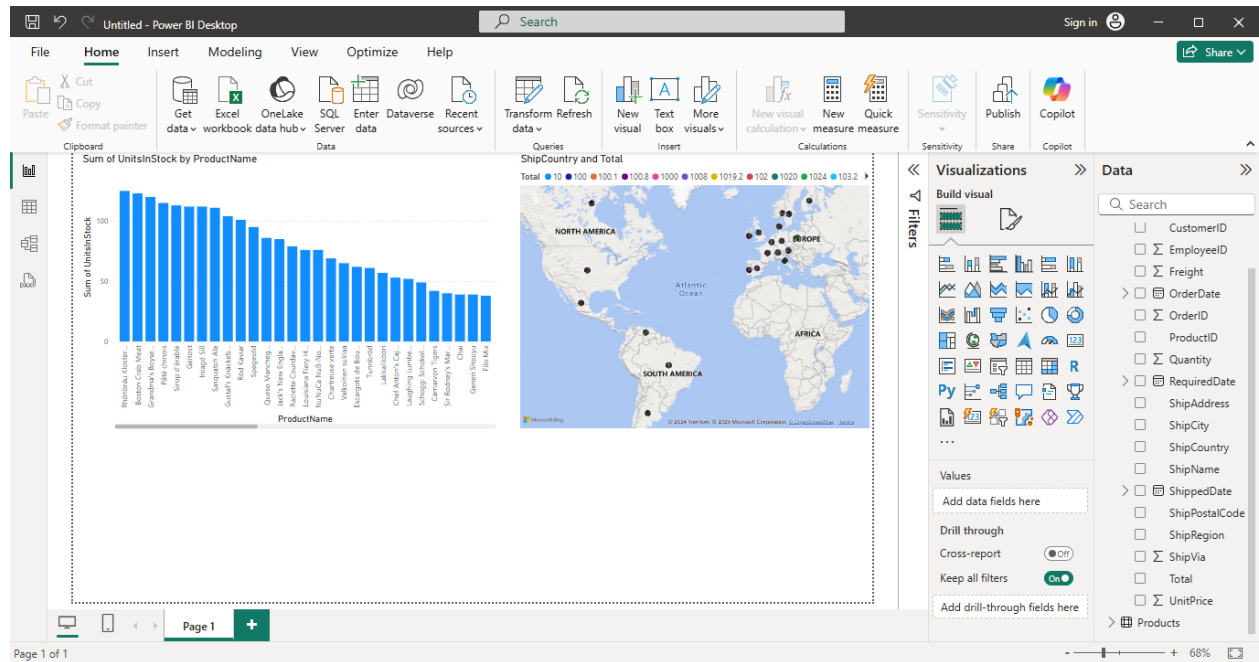
3) Add Q&A, search 'total freight over time'.