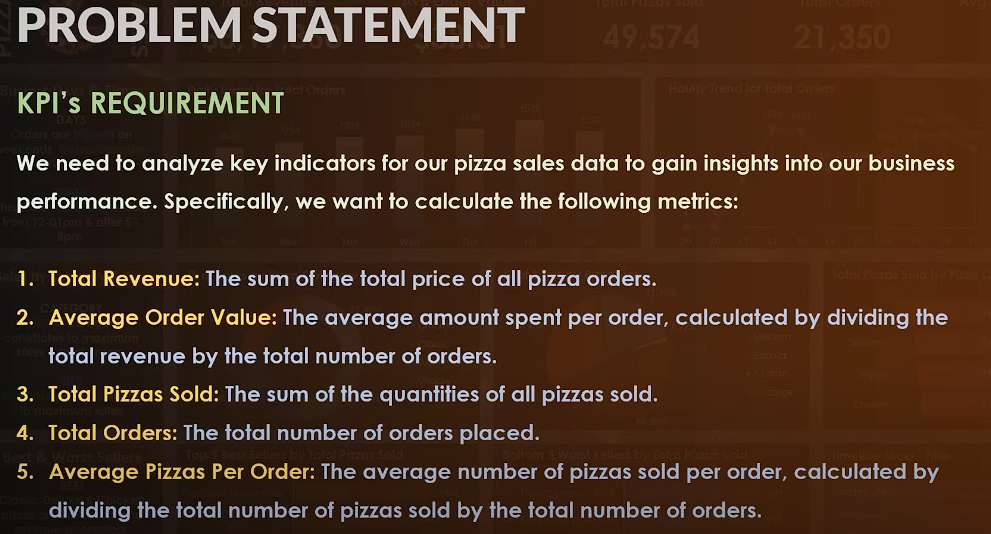
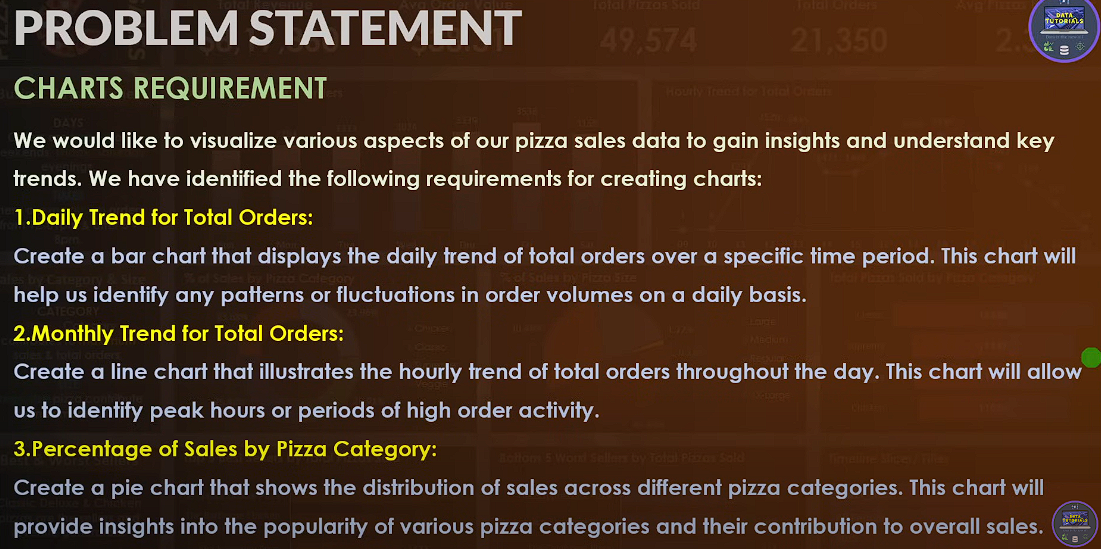
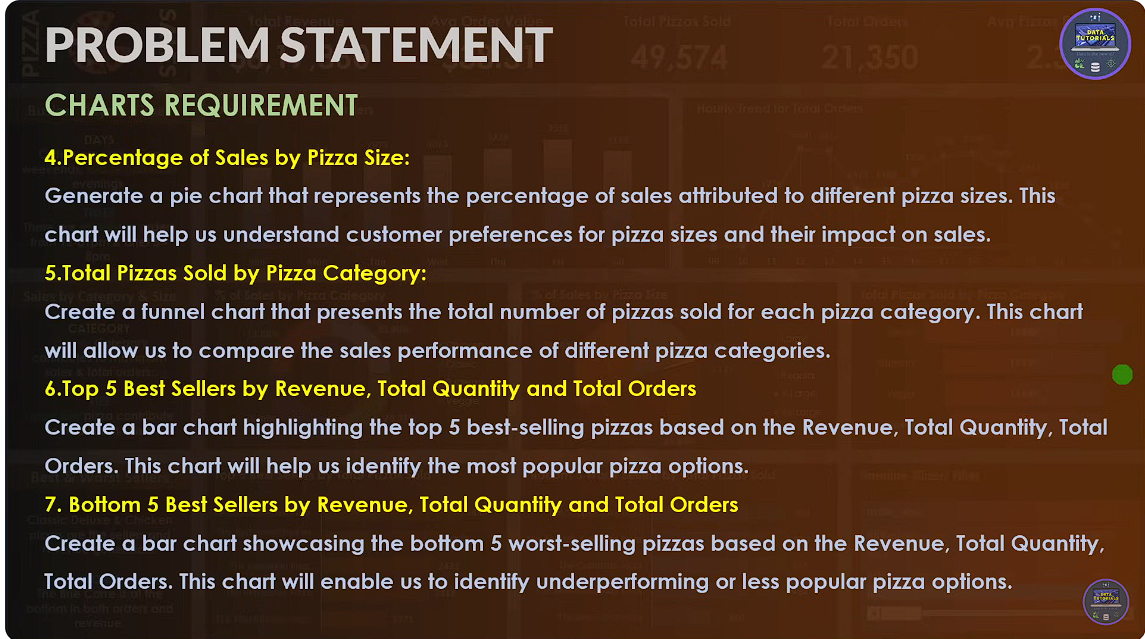
**Pizza Sales Project Documentation**

**Required Skills: SQL and Power BI**

**Required KPI’S:**

****

****

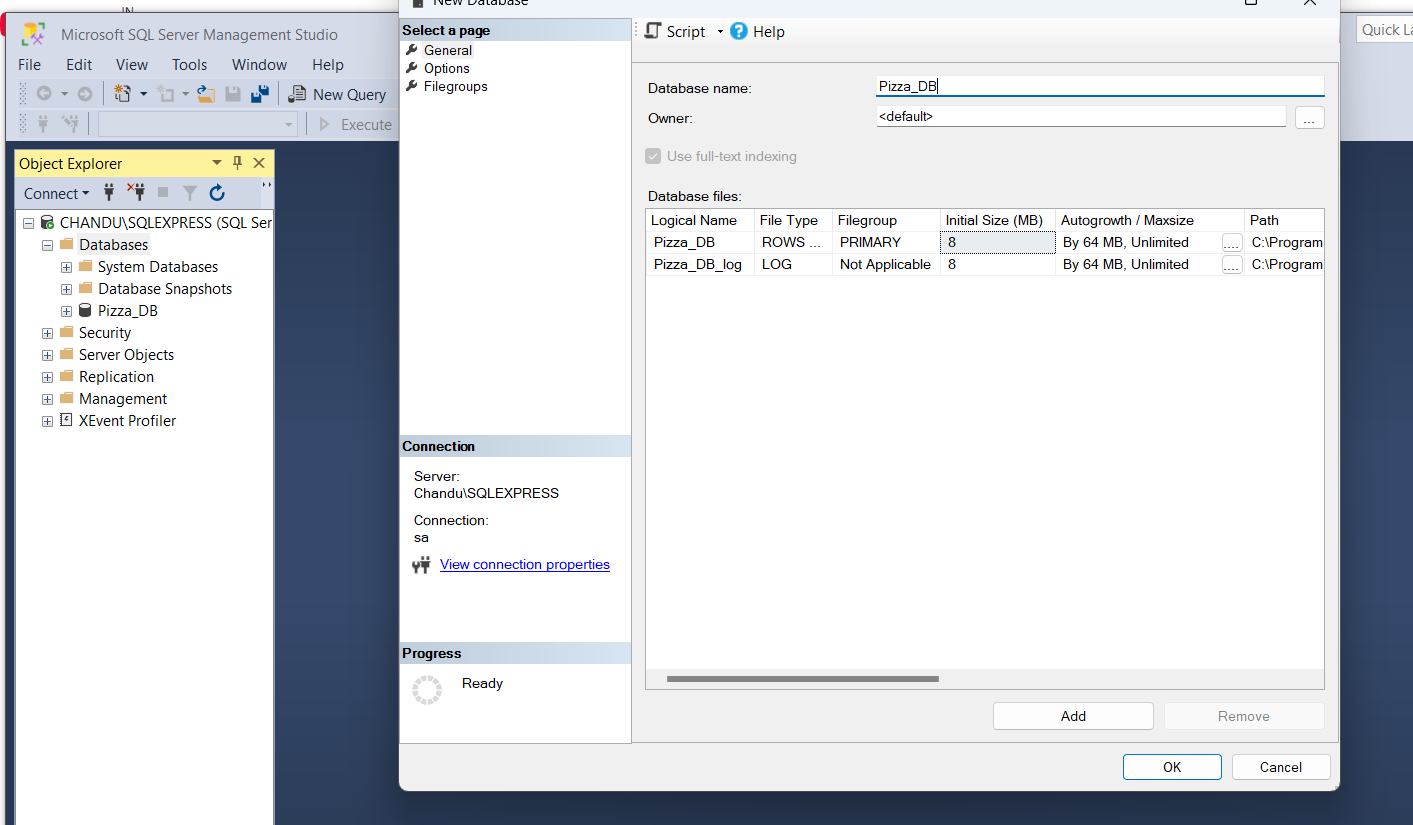
****

**Part 1: SQL**

**Open Microsoft SQL Server Management Studio**

**Step 1: Creating Data Base**

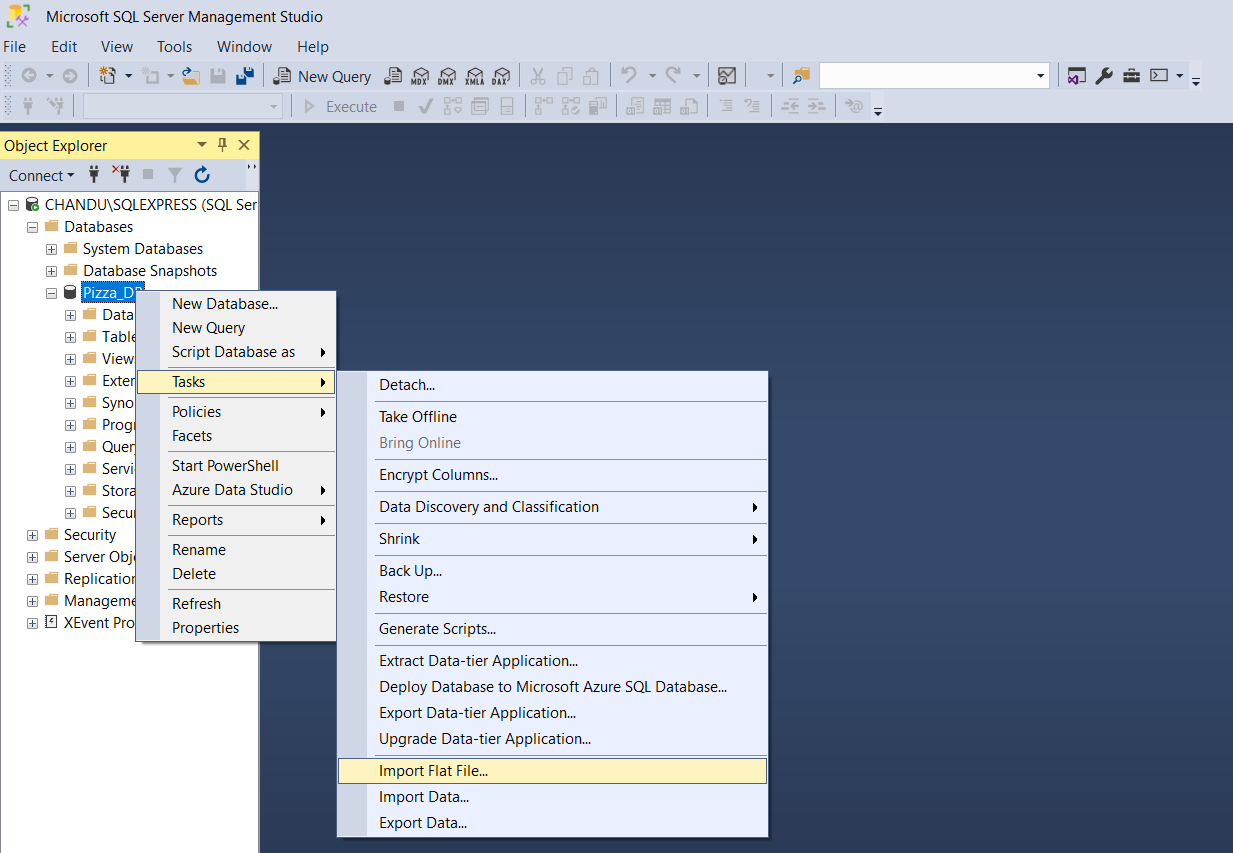
Open Microsoft SQL Server Manager 🡪 Databases 🡪 Rig Click 🡪 New Database



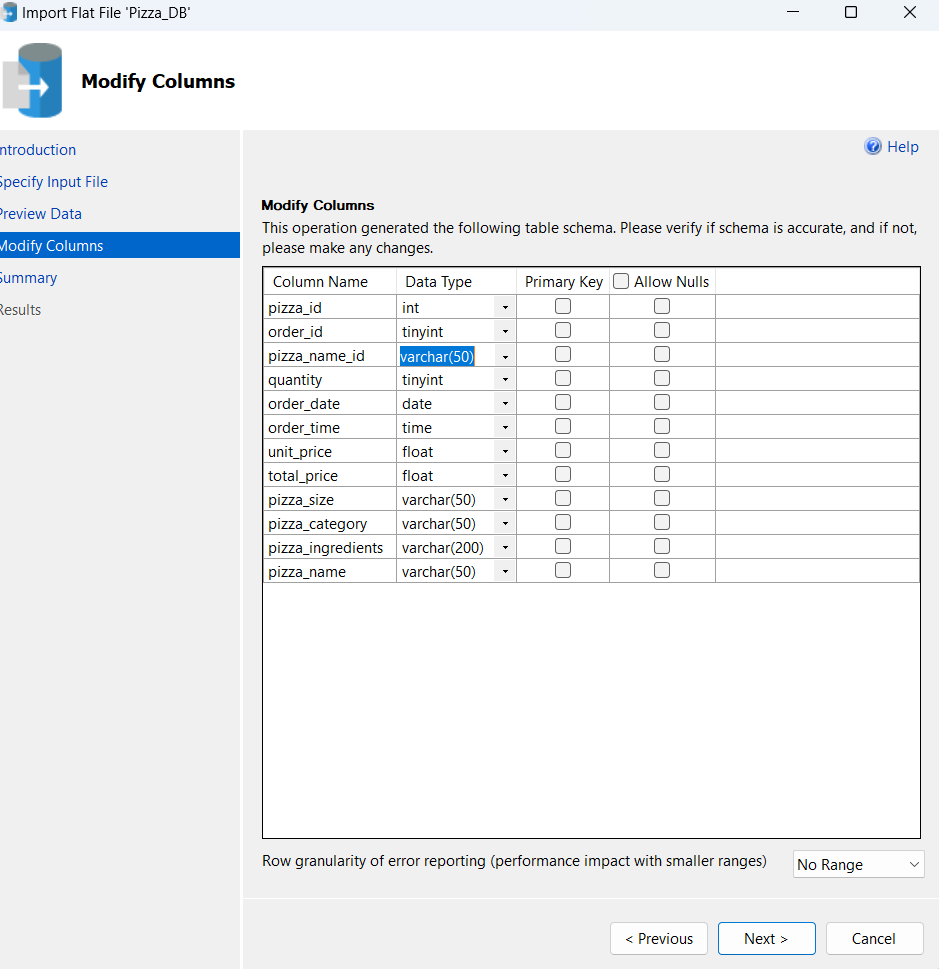
Database name: Pizza\_DB 🡪 OK Button

**Step 2: Import Flat File**

Go to Pizza\_DB 🡪 Right Click 🡪 Tasks🡪 Import Flat File

****

Modify Data types Below Showing Image 🡪 Do the Next Steps

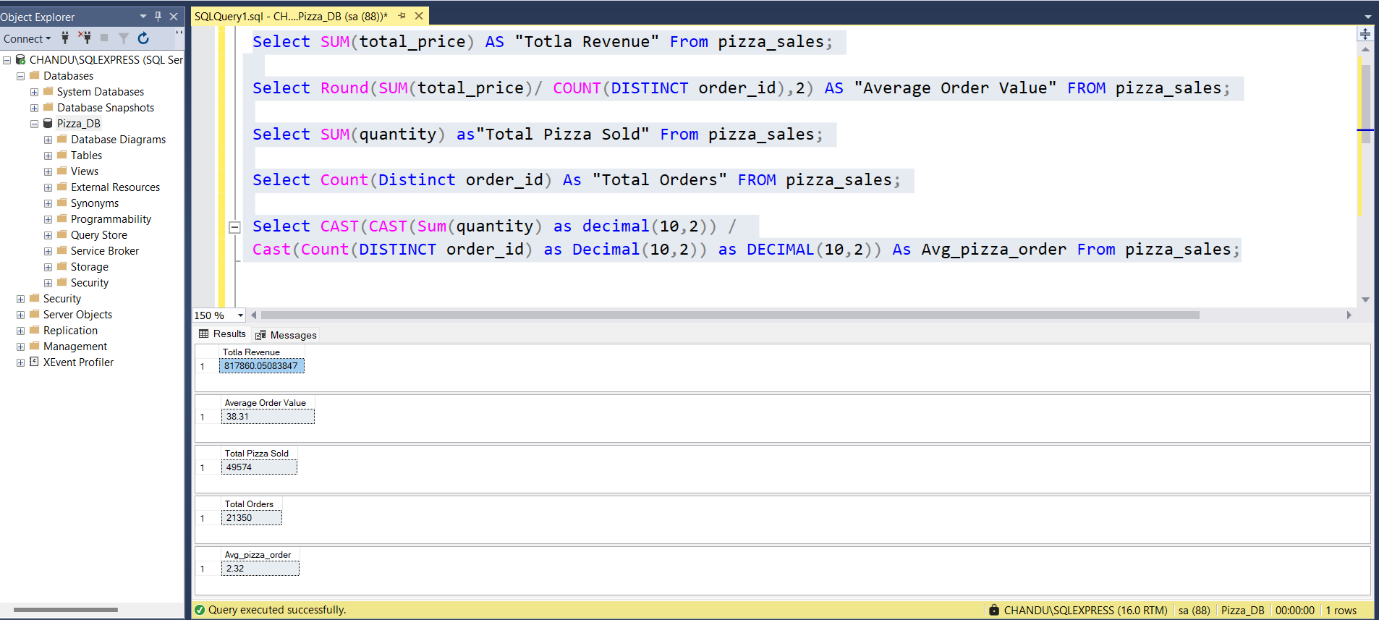
****

**Note:** order\_id also Change the Data Type **tinyint to int**

**Step 3: Write The Queries as Per KPI Requirements**

Select Pizza\_DB 🡪 Right Click 🡪 New Query

Then Write the Below query and execute the all Quires



**A. KPI’s**

**1. Total Revenue:**

SELECT SUM(total\_price) AS Total\_Revenue FROM pizza\_sales;



**2. Average Order Value**

SELECT (SUM(total\_price) / COUNT(DISTINCT order\_id)) AS Avg\_order\_Value FROM pizza\_sales



**3. Total Pizzas Sold**

SELECT SUM(quantity) AS Total\_pizza\_sold FROM pizza\_sales



**4. Total Orders**

SELECT COUNT(DISTINCT order\_id) AS Total\_Orders FROM pizza\_sales



**5. Average Pizzas Per Order**

SELECT CAST(CAST(SUM(quantity) AS DECIMAL(10,2)) /

CAST(COUNT(DISTINCT order\_id) AS DECIMAL(10,2)) AS DECIMAL(10,2))

AS Avg\_Pizzas\_per\_order

FROM pizza\_sales



**Charts Requirements:**

**B. Daily Trend for Total Orders**SELECT DATENAME(DW, order\_date) AS order\_day, COUNT(DISTINCT order\_id) AS total\_orders

FROM pizza\_sales

GROUP BY DATENAME(DW, order\_date)

***Output:***

****

**C. Monthly Trend for Orders**

select DATENAME(MONTH, order\_date) as Month\_Name, COUNT(DISTINCT order\_id) as Total\_Orders

from pizza\_sales

GROUP BY DATENAME(MONTH, order\_date)***Output***

****

**D. % of Sales by Pizza Category**

SELECT pizza\_category, CAST(SUM(total\_price) AS DECIMAL(10,2)) as total\_revenue,

CAST(SUM(total\_price) \* 100 / (SELECT SUM(total\_price) from pizza\_sales) AS DECIMAL(10,2)) AS PCT

FROM pizza\_sales

GROUP BY pizza\_category

***Output***

****

**E. % of Sales by Pizza Size**

SELECT pizza\_size, CAST(SUM(total\_price) AS DECIMAL(10,2)) as total\_revenue,

CAST(SUM(total\_price) \* 100 / (SELECT SUM(total\_price) from pizza\_sales) AS DECIMAL(10,2)) AS PCT

FROM pizza\_sales

GROUP BY pizza\_size

ORDER BY pizza\_size

***Output***

****

**F. Total Pizzas Sold by Pizza Category**

SELECT pizza\_category, SUM(quantity) as Total\_Quantity\_Sold

FROM pizza\_sales

WHERE MONTH(order\_date) = 2

GROUP BY pizza\_category

ORDER BY Total\_Quantity\_Sold DESC

***Output***

****

**G. Top 5 Pizzas by Revenue**

SELECT Top 5 pizza\_name, SUM(total\_price) AS Total\_Revenue

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Revenue DESC

****

**H. Bottom 5 Pizzas by Revenue**

SELECT Top 5 pizza\_name, SUM(total\_price) AS Total\_Revenue

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Revenue ASC

****

**I. Top 5 Pizzas by Quantity**

SELECT Top 5 pizza\_name, SUM(quantity) AS Total\_Pizza\_Sold

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Pizza\_Sold DESC

***Output***

****

**J. Bottom 5 Pizzas by Quantity**

SELECT TOP 5 pizza\_name, SUM(quantity) AS Total\_Pizza\_Sold

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Pizza\_Sold ASC

***Output***

****

**K. Top 5 Pizzas by Total Orders**

SELECT Top 5 pizza\_name, COUNT(DISTINCT order\_id) AS Total\_Orders

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Orders DESC

****

**L. Borrom 5 Pizzas by Total Orders**

SELECT Top 5 pizza\_name, COUNT(DISTINCT order\_id) AS Total\_Orders

FROM pizza\_sales

GROUP BY pizza\_name

ORDER BY Total\_Orders ASC

******

***NOTE***

If you want to apply the pizza\_category or pizza\_size filters to the above queries you can use WHERE clause. Follow some of below examples

SELECT Top 5 pizza\_name, COUNT(DISTINCT order\_id) AS Total\_Orders

FROM pizza\_sales

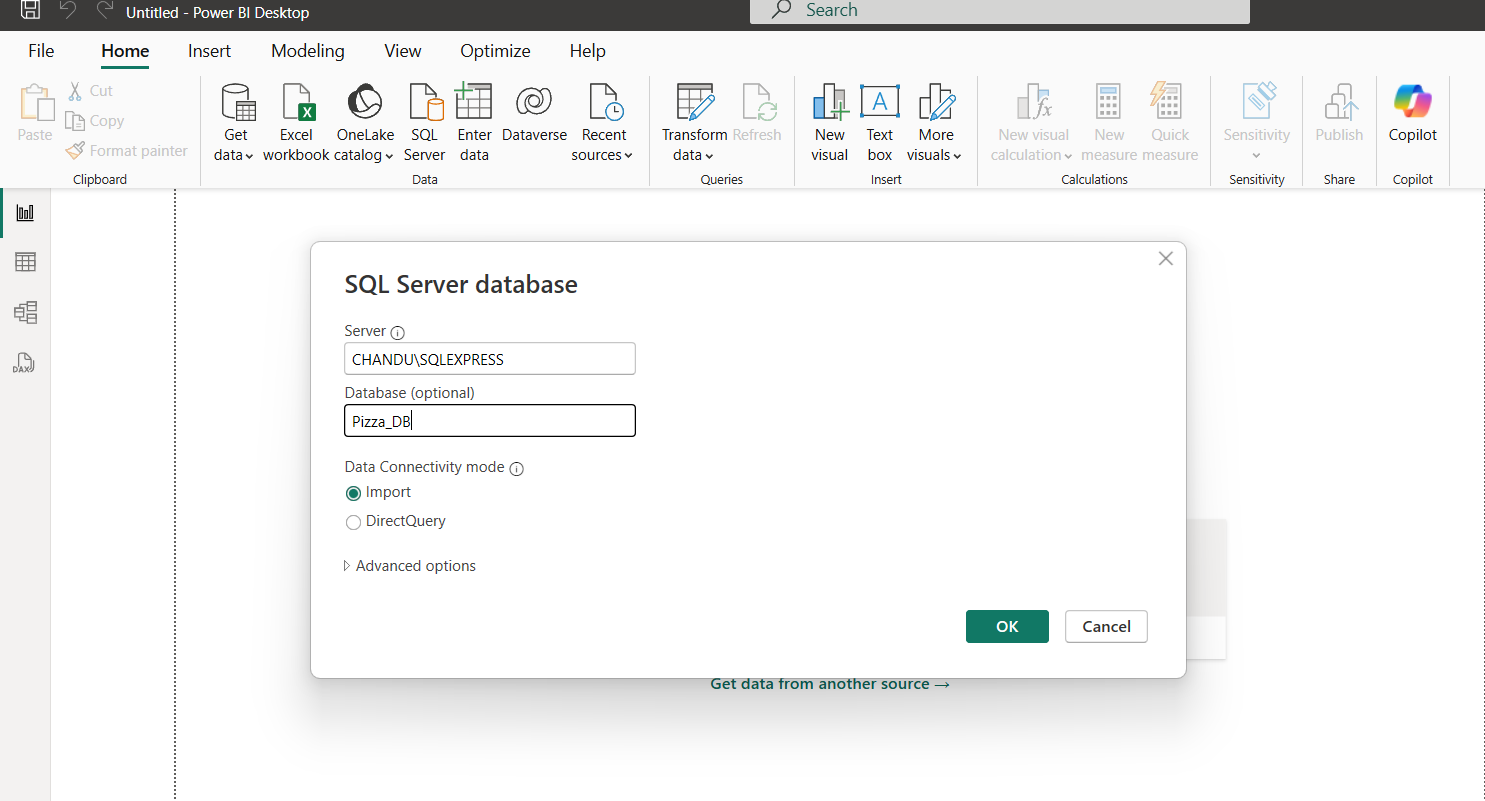
WHERE pizza\_category = 'Classic'

GROUP BY pizza\_name

ORDER BY Total\_Orders ASC

**Part 2: Power BI**

**Step 1**: Open Power Bi Desktop 🡪 New File 🡪 Get Data 🡪 SQL Server

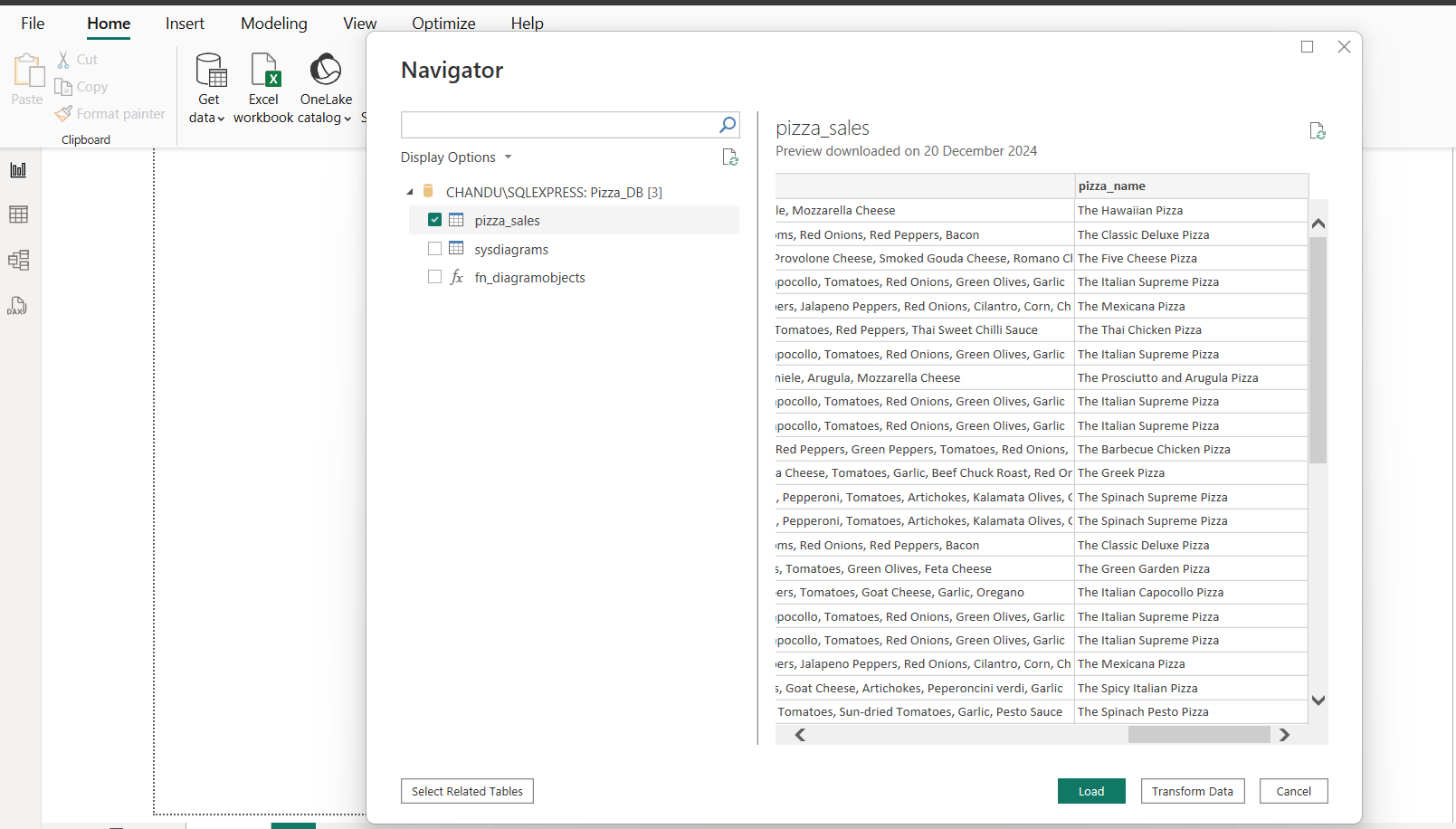


Server : CHANDU\SQLEXPRESS

Database: Pizza\_DB

Check **Import** and **OK**

Select **pizza\_sales** Then **Load**



Step3: Click 🡪 **Transform Data** in Power Query Editor

Go to 🡪 **pizza\_size** Coolum and Replace the Vales below

S = Regular

M = Medium

L = Large

XL = X-Large

XXL = XX-Large

Then **Close& Apply**

**DAX – Functions**

**KPI’S Requirements:**

Step 3:Creating Measures:

1. Total Revenue = SUM(pizza\_sales[total\_price])
2. Total Orders = DISTINCTCOUNT(pizza\_sales[order\_id])
3. Avarage Order Value = [Total Revenue]/[Total Orders]
4. Total Pizzas Sold = SUM(pizza\_sales[quantity])
5. Avg Pizza Per Order = [Total Pizzas Sold]/[Total Orders]

**Charts Requirements:**