# RYHASTORE PROJECT

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#### INTRODUCTION



- Ryha Store is a footwear store located in Tangerang Selatan, Banten
- offer a wide range of products from both local and international brands
- Engage in sales through both offline and online channels

# PROJECT SCENARIO

The Brief	<ul> <li>The management team is looking for a solution to monitor key performance indicators (KPI) such as sales, revenue, profit, and cost.</li> <li>Additionally, they need to be able to analyze the geographical locations of product sales</li> </ul>
The Objective	<ul> <li>Manage and store raw data in a MySQL database</li> <li>Connect MySQL database to Power BI Desktop</li> <li>Explore the dataset and analyze it with DAX</li> <li>Design an interactive dashboard to visualize the data</li> </ul>

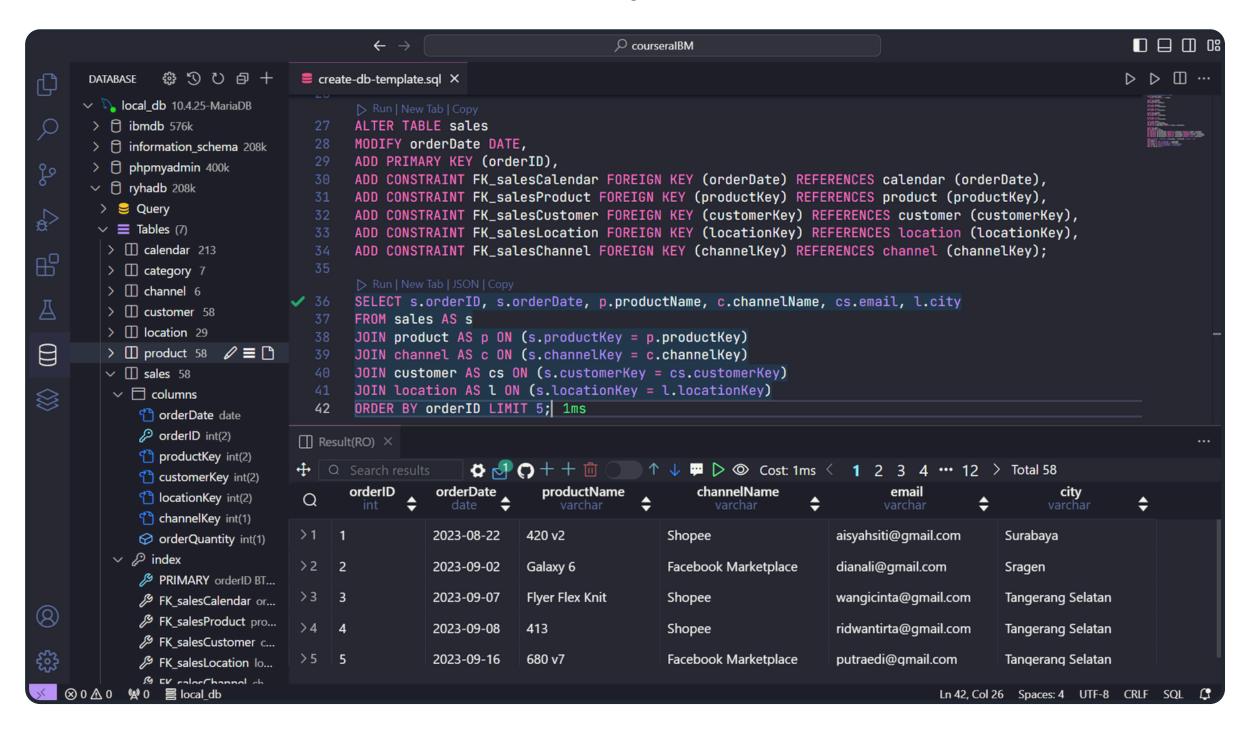


#### **Three Key Questions**

Question	Answer
What <b>type of data</b> are you working with?	<ul><li>Time-series</li><li>Categorical</li><li>Financial</li></ul>
What do you want to <b>communicate</b> ?	<ul> <li>Description (Card, KPI, Matrix Table)</li> <li>Comparison (Bar Chart, Line Chart)</li> <li>Distribution (Map)</li> </ul>
Who is the <b>end user</b> and what do they need?	<ul> <li>The Executive (Establish clear, top-level KPIs to monitor business performance and health)</li> </ul>

## MYSQL DATABASE

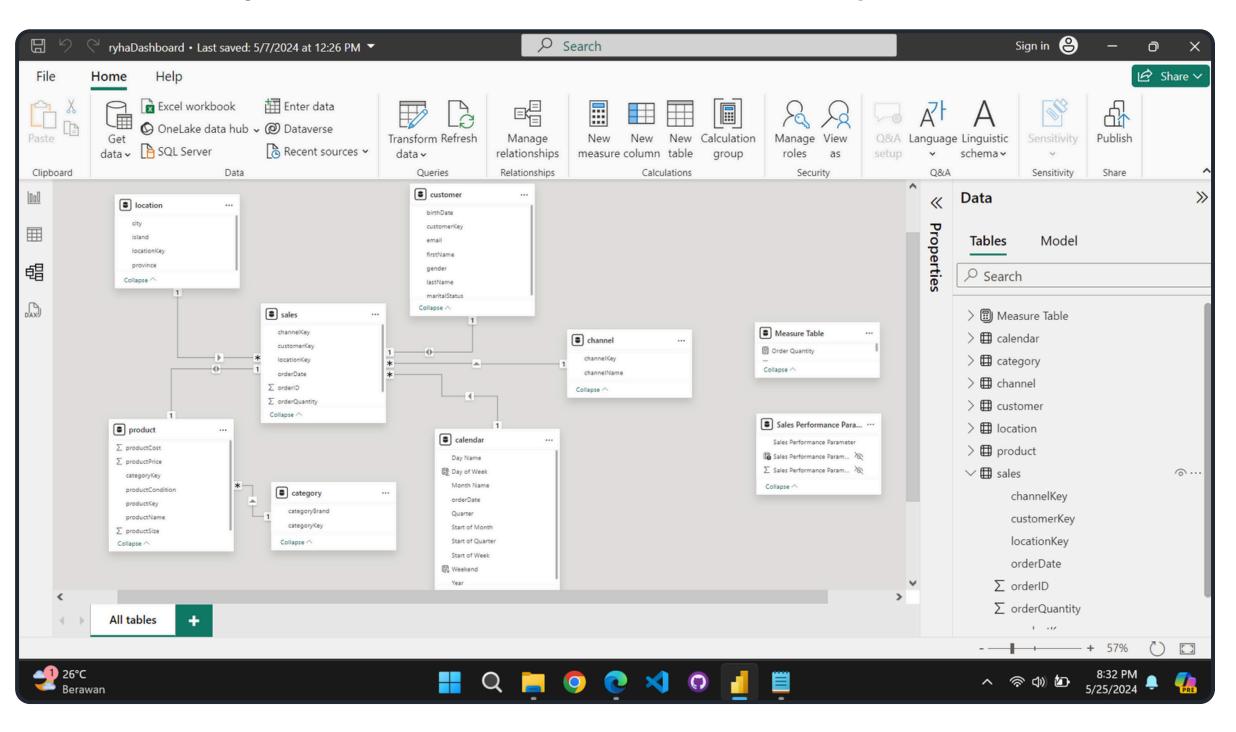
1. Store dataset from CSV file to MySQL database



- The dataset consists of 8 tables:
  - 1 fact table:
    - sales
  - 7 dimensional tables:
    - calendar
    - category
    - channel
    - customer
    - location
    - product
- Create primary keys and foreign keys for tables in databases

#### POWER BI DESKTOP

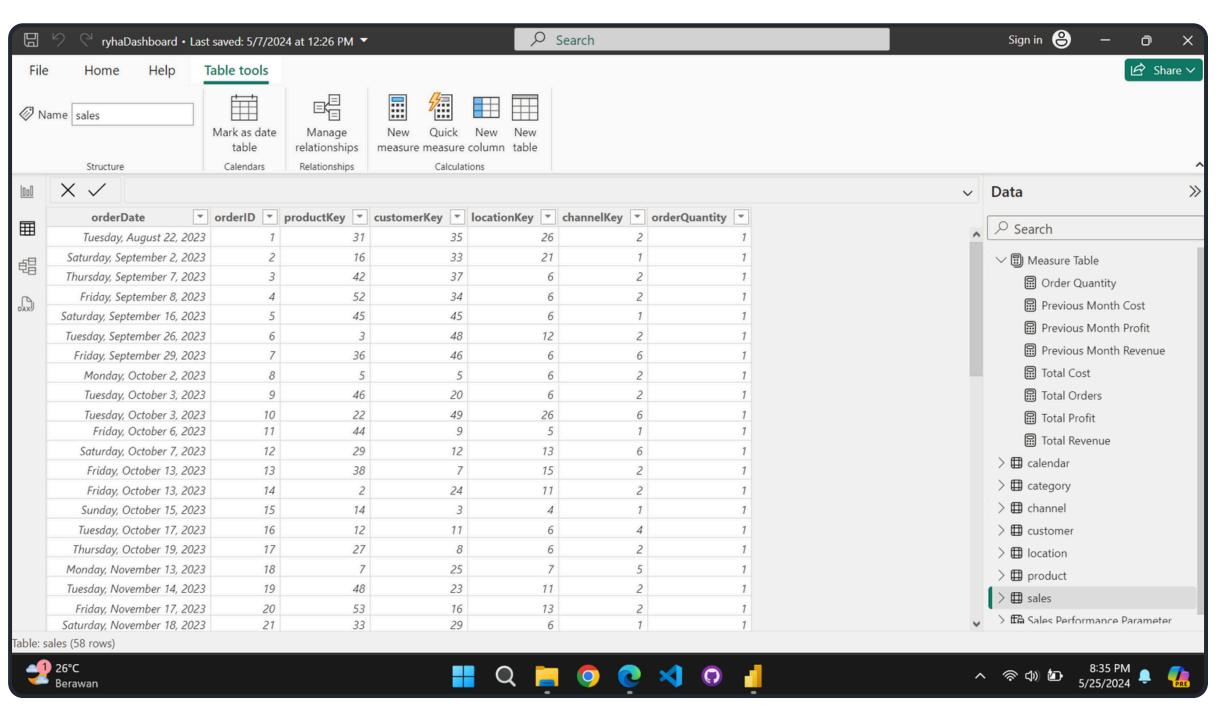
2. Connect MySQL database to Power BI Desktop



- The data model features a star schema, with a central fact table surrounded by associated dimension tables
- Sales table has a many-to-one relationship with the calendar, location, and channel tables
- Category table has one-tomany relationship with product table



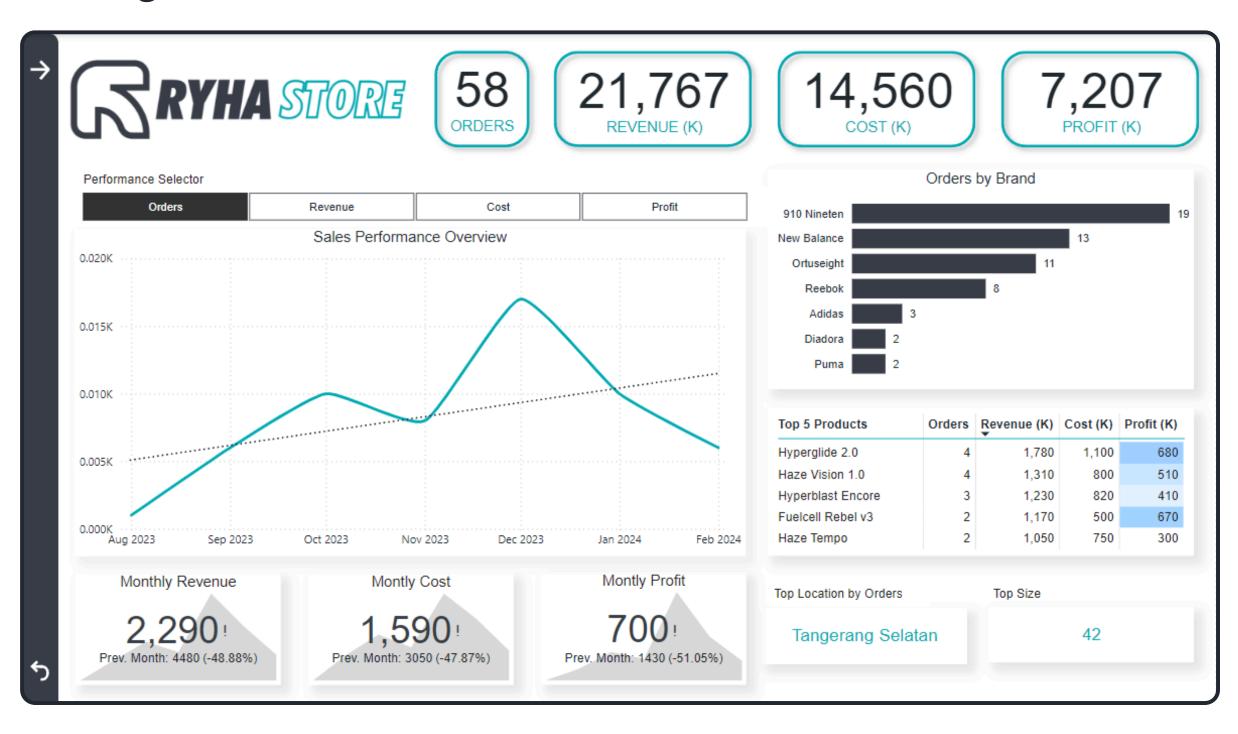
#### 3. Explore the dataset and analyze it with DAX



- Create a DAX measures to calculate the values of key performance indicators (KPIs)
- Create a DAX measure to calculate the cost, profit, and revenue for the previous month and compare it to the last month
- Group all measurements to the measure table
- The dataset has 58 orders from Aug 2023 until Feb 2024

#### DASHBOARD

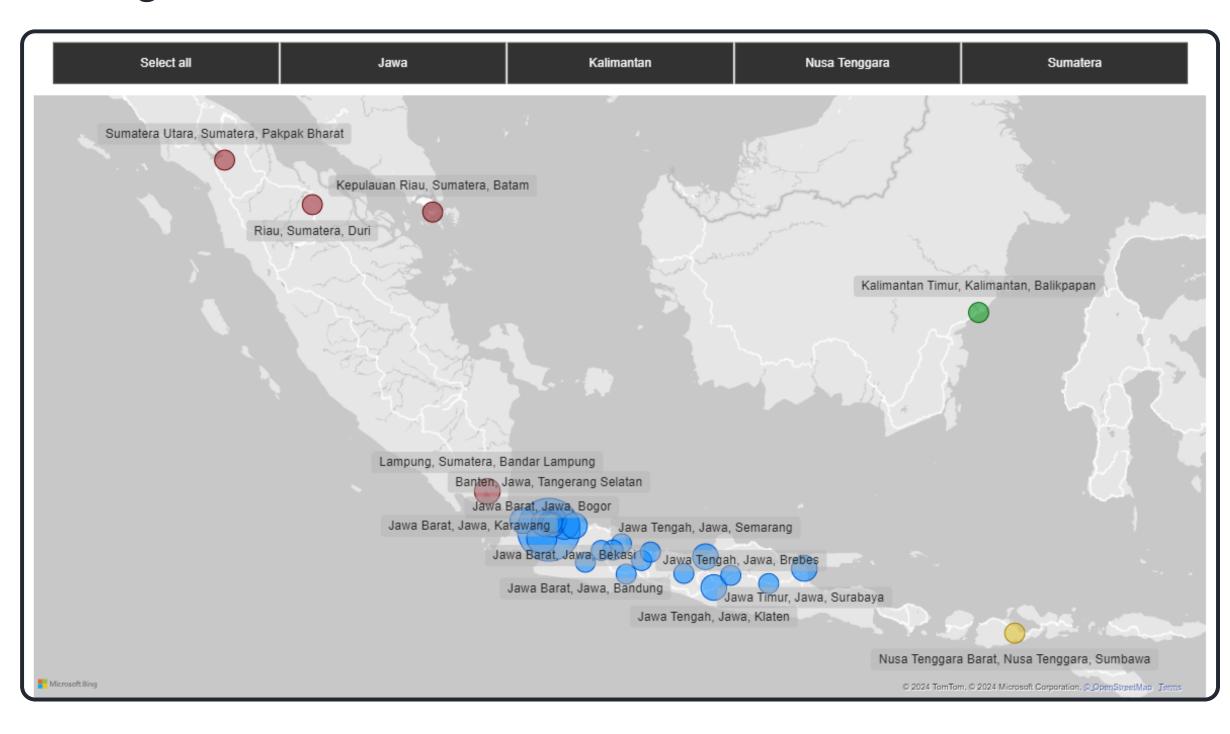
4. Design an interactive dashboard to visualize the data (tab 1)



- The sales performance line chart includes filters for adjusting KPI values and is grouped by monthly sales
- The bar chart displays order values by brand and is linked to a matrix table that shows the top 5 products
- The KPI cards below the line chart compare last month's values to the previous month's values

#### DASHBOARD

4. Design an interactive dashboard to visualize the data (tab 2)



- The map chart includes a filter to group sales results by island location
- A drill-through function has been added to adjust the results by island, province, and city.

#### CONCLUSION

- Sales in **December 2023** had the **highest revenue** of any month
- The KPI in February 2024 decreased compared to the previous month
- The top brand by orders is **910 Nineten**, followed by New Balance and Ortuseight
- The New Balance FuelCell Rebel v3 has the highest average profit per order
- Sales are dominated by the island of Java, with the highest number of orders in

**Tangerang Selatan** 



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