Problem Statement:

A small company Axon, which is a retailer selling classic cars, is facing issues in managing and analyzing their sales data. The sales team is struggling to make sense of the data and they do not have a centralized system to manage and analyze the data. The management is unable to get accurate and up-to-date sales reports, which is affecting the decision-making process.

To address this issue, the company has decided to implement a Business Intelligence (BI) tool that can help them manage and analyze their sales data effectively. They have shortlisted Microsoft PowerBI and SQL as the BI tools for this project.

The goal of the capstone project is to design and implement a BI solution using PowerBI and SQL that can help the company manage and analyze their sales data effectively. The solution should be able to:

1. Import and integrate the data from MySQL database into PowerBI

2. Clean and transform the data to make it ready for analysis.

3. Build interactive dashboards and reports using PowerBI that can help the sales team and management make sense of the data.

4. Use SQL to perform advanced analytics on the data and extract insights that can help the company improve its sales (if needed).

5. Enable the management to access the dashboards and reports in real-time and make data-driven decisions.

The solution should be user-friendly and easy to use for the sales team and management. The project will be successful if it helps the company effectively manage and analyze their sales data and improve their decision-making process.

MySQL Sample Database Schema

The MySQL sample database schema consists of the following 8 tables:

- Customers: stores customer's data.
- Products: stores a list of scale model cars.
- ProductLines: stores a list of product line categories.
- Orders: stores sales orders placed by customers.
- OrderDetails: stores sales order line items for each sales order.
- Payments: stores payments made by customers based on their accounts.
- Employees: stores all employee information as well as the organization structure such as who reports to whom.
- Offices: stores sales office data