Database Development Project:

Project description: In this project, you will develop a Sales Data Management System for a startup that wants to keep track of their daily sales data. The system will allow the company to maintain and analyze their sales data in a centralized database using complex SQL queries.

Database Development:

The project entailed creating and maintaining a product sales database for a new business. My duty was to guarantee that the database was updated daily with accurate sales data, which required me to input and assess the results using advanced SQL queries.

To begin the project, I collaborated with to determine their database requirements. This included establishing the sorts of data that needed to be collected, how it would be arranged, and the reports and analysis that would be required for the company to make educated business decisions.

After determining the requirements, I began developing the database, which included creating tables and fields to contain the necessary data as well as designing the necessary linkages between the tables.

I worked on designing SQL queries to enter and assess sales data after the database was constructed. This entailed using numerous SQL functions and operators to collect, filter, and sort the data, as well as provide reports and analysis required for the company's growth.

I worked with sales team throughout the project to verify that the data was correct and that the database and reports fit their expectations. I also tested and maintained the database on a regular basis to ensure that it was working properly and that the data was consistent.

Description:

- For the creation of dashboard first it requires the data entry, in this context it is the sales data, the large amount of sales data is acquired from company’s billing portal. This way we’ll get the data and load it into the portal.

- The loaded data will be utilized as per the requirements and the data can be retrieved using various parameters such as date, product name, quantity sold and price.

- Data analysis: The analysis on the sales data is carried using SQL queries. The common calculations such as total sales for a particular period, average sales per day, and top-selling products, and most selling areas is performed using SQL.

- Data visualization: This involves the development of charts and graphs based on the sales data using visualization tools such as tableau.

Tools and technologies:

- Database: I used relational database management system (RDBMS) such as MySQL Server to develop the system.

- Programming language: I Used python as a programming language to develop the system.

- SQL: You will need to have a good understanding of SQL and be able to write complex SQL queries to manipulate and retrieve data from the database.

- Visualization tools: I used Tableau as a visual tool to create charts and graphs based on the sales data.