**Problem Statement: Customer Database Management System (SQL)**

**Abstract**

Structured Query Language (**SQL**) plays a vital role in managing customer databases by enabling efficient storage, retrieval, and manipulation of business-related data. In an organization handling sales and customer relations, maintaining accurate records of customers, their orders, and assigned agents is crucial for business success. SQL ensures **data integrity, security, and quick access to information** through its powerful querying capabilities. It allows businesses to analyze customer behavior, track sales performance, and optimize agent assignments, thereby enhancing operational efficiency and customer satisfaction. By leveraging SQL, organizations can automate workflows, minimize errors, and gain valuable insights through data-driven decision-making.

**Objective**

You are tasked with designing and implementing a **Customer Database Management System** using **MySQL**. The goal is to create a well-structured relational database that stores customer-related data and allows efficient querying to generate reports and derive insights.

**Project Scope**

1. **Database Creation:**
   * Design and create a **relational database** for customer management using **MySQL**.
   * Define appropriate **tables, relationships, primary keys, and foreign keys** to ensure data integrity.
2. **Data Ingestion:**
   * Load data from the provided files into the created tables using **SQL INSERT queries or bulk import techniques**.
3. **Query Writing & Report Generation:**
   * Write SQL queries to answer specific business questions and generate reports for order details, customer insights, and agent tracking.

**Dataset & Tables (Sample Structure)**

The database will include tables having details related to customers, order details and agents.

**Expected Outcome**

By the end of this exercise, learners will:  
✅ Understand relational database design principles.  
✅ Gain hands-on experience in writing **SQL DDL (Data Definition Language)** and **DML (Data Manipulation Language) queries**.  
✅ Be able to **query data to generate insights and reports** useful for business decision-making.