Homework 1.1: Bank Database Design

Craft a database schema for a bank's operational system. This database should cover accounts, customers, and transactions.

Define Tables and Attributes:

Identify necessary tables for handling customers, accounts, and transactions.

Specify relevant attributes for each table (e.g., for customers, include name, customer ID, contact details; for accounts, consider account number, balance, customer ID; for transactions, detail transaction ID, account number, amount, date).

Outline Key Relationships:

Determine how these tables will interlink. What will be the primary keys? How should foreign keys be utilized to link customers to accounts and accounts to transactions?

Homework 1.2: Restaurant Management Database

Objective:

Establish a SQL database named Restaurant and create tables that represent a basic restaurant management system. After creating the tables, insert sample data into each table.

Database and Schema Details:

- 1. Database:
 - Name the database Restaurant.
- 2. Tables and Attributes:
 - o Table: Menu
 - menu_id (INT, primary key, auto-increment)
 - item_name (VARCHAR(50))
 - price (INT)
 - Table: Customers
 - customer_id (INT, primary key, auto-increment)
 - first_name (VARCHAR(50))
 - last_name (VARCHAR(50))
 - contact_number (VARCHAR(15))
 - Table: Tables
 - table_id (INT, primary key, auto-increment)
 - capacity (INT)
 - Table: Orders
 - order_id (INT, primary key, auto-increment)
 - customer_id (INT, foreign key to Customers)
 - table_id (INT, foreign key to Tables)
 - order_time (TIMESTAMP)