

Part 1

```
CREATE SCHEMA IF NOT EXISTS RestaurantApplication;  
USE RestaurantApplication;
```

```
DROP TABLE IF EXISTS SitDown;  
DROP TABLE IF EXISTS TakeOut;  
DROP TABLE IF EXISTS FoodCart;  
DROP TABLE IF EXISTS Review;  
DROP TABLE IF EXISTS Recommendation;  
DROP TABLE IF EXISTS Reservation;  
DROP TABLE IF EXISTS CardInformation;  
DROP TABLE IF EXISTS Restaurant;  
DROP TABLE IF EXISTS Address;  
DROP TABLE IF EXISTS Company;  
DROP TABLE IF EXISTS Users;
```

```
CREATE TABLE Address (  
    RestaurantID INT PRIMARY KEY,  
    Street1 VARCHAR(255) NOT NULL,  
    Street2 VARCHAR(255) NOT NULL,  
    City VARCHAR(255) NOT NULL,  
    State VARCHAR(255) NOT NULL,  
    ZipCode INT NOT NULL  
);
```

```
CREATE TABLE Company(  
    CompanyID INT AUTO_INCREMENT PRIMARY KEY,  
    CompanyName VARCHAR(255) NOT NULL,  
    Descriptions VARCHAR(255)  
);
```

```
CREATE TABLE CardInformation (  
    UserName VARCHAR(255) PRIMARY KEY,  
    CardNumber BIGINT NOT NULL,  
    ExpirationDate TIMESTAMP NOT NULL  
);
```

```
CREATE TABLE Users (  
    UserID INT AUTO_INCREMENT PRIMARY KEY,  
    UserName VARCHAR(255) NOT NULL,
```

```
    Passwords VARCHAR(255) NOT NULL,  
    FirstName VARCHAR(255) NOT NULL,  
    LastName VARCHAR(255) NOT NULL,  
    Email VARCHAR(255) UNIQUE,  
    PhoneNumber INT  
);
```

```
CREATE TABLE Restaurant (  
    RestaurantID INT PRIMARY KEY AUTO_INCREMENT,  
    RestaurantName VARCHAR(255) NOT NULL,  
    Descriptions VARCHAR(255),  
    Menu TEXT NOT NULL,  
    Availability ENUM('OPEN', 'CLOSE') NOT NULL,  
    CuisineType ENUM('African', 'American', 'Asian', 'European', 'Hispanic') NOT NULL,  
    CompanyID INT,  
    CONSTRAINT fk_Company_CompanyID FOREIGN KEY (CompanyID)  
        REFERENCES Company (CompanyID)  
        ON UPDATE CASCADE ON DELETE SET NULL  
);
```

```
CREATE TABLE SitDown (  
    RestaurantID INT PRIMARY KEY,  
    Capacity INT NOT NULL,  
    CONSTRAINT fk_SitDown_RestaurantID FOREIGN KEY (RestaurantID)  
        REFERENCES Restaurant (RestaurantID)  
        ON UPDATE CASCADE ON DELETE CASCADE  
);
```

```
CREATE TABLE TakeOut (  
    RestaurantID INT PRIMARY KEY,  
    MaxWaitTime TIME NOT NULL,  
    CONSTRAINT fk_TakeOut_RestaurantID FOREIGN KEY (RestaurantID)  
        REFERENCES Restaurant (RestaurantID)  
        ON UPDATE CASCADE ON DELETE CASCADE  
);
```

```
CREATE TABLE FoodCart (  
    RestaurantID INT PRIMARY KEY,  
    Licensed BOOLEAN NOT NULL,  
    CONSTRAINT fk_FoodCart_RestaurantID FOREIGN KEY (RestaurantID)  
        REFERENCES Restaurant (RestaurantID)  
        ON UPDATE CASCADE ON DELETE CASCADE  
);
```

```
CREATE TABLE Review (  
    UserID INT AUTO_INCREMENT PRIMARY KEY,  
    RestaurantID INT,  
    CreatedTime TIMESTAMP DEFAULT CURRENT_TIMESTAMP NOT NULL,  
    ReviewContent VARCHAR(255) NOT NULL,  
    Rating FLOAT NOT NULL,  
    CONSTRAINT fk_Review_RestaurantID  
        FOREIGN KEY (RestaurantID)  
        REFERENCES Restaurant(RestaurantID)  
        ON UPDATE CASCADE ON DELETE CASCADE,  
    CONSTRAINT uc_User_Restaurant UNIQUE (UserID, RestaurantID)  
);
```

```
CREATE TABLE Recommendation (  
    UserID INT AUTO_INCREMENT PRIMARY KEY,  
    RestaurantID INT NOT NULL,  
    CreatedTime TIMESTAMP NOT NULL,  
    CONSTRAINT fk_Restaurant_RestaurantID  
        FOREIGN KEY (RestaurantID)  
        REFERENCES Restaurant(RestaurantID)  
);
```

```
CREATE TABLE Reservation (  
    UserID INT AUTO_INCREMENT PRIMARY KEY,  
    RestaurantID INT NOT NULL,  
    CreatedTime TIMESTAMP NOT NULL,  
    StartTime TIMESTAMP NOT NULL,  
    EndTime TIMESTAMP NOT NULL,  
    PartySize INT NOT NULL,  
    CONSTRAINT fk_Reservation_RestaurantID FOREIGN KEY (RestaurantID)  
        REFERENCES Restaurant(RestaurantID)  
);
```

Part 2

USE RestaurantApplication;

INSERT INTO Company(CompanyID, CompanyName, Descriptions)

VALUES

(1, "Yum China Holdings ", "Yum China Holdings is a Fortune 500 company incorporated in the United States but headquartered in Shanghai. It operates thousands of restaurant locations across mainland China."),

(2, "Darden Restaurants", "Darden Restaurants owns and operates a line of casual and fine dining restaurant chains including brands such as Olive Garden, LongHorn Steakhouse, Bahama Breeze, Seasons 52, Eddie V's, and Yard House.");

INSERT INTO Address(RestaurantID, Street1, Street2, City, State, ZipCode)

VALUES

(1, '123', '1 Ave. ', 'Seattle', "Washington", 98109),

(2, '123', '1 Ave. ', 'Seattle', "Washington", 98109);

INSERT INTO Restaurant (RestaurantID, RestaurantName, Descriptions, Menu, Availability, CuisineType, CompanyID)

VALUES

(1, "Pizza Hut", "Best pizza of America", "cheese, sausage, vega, hawaii", "OPEN", "American", 1),

(2, "Olive Garden", "Best Salads", "bow, poke", "CLOSE", "European", 2),

(3, "Barbecue", "Mexican Barbecue", "pork, beef, chicken", "OPEN", "American", 2),

(4, "LongHorn Steakhouse", "Best Steak", "choice, prime, angus", "OPEN", "American", 2),

(5, "Seasons 52", "Delicious", "Meal 1, Meal2", "OPEN", "Hispanic", 2),

(6, "KFC", "Happy everyday", "chicken, fries, shake, pies", "OPEN", "American", 1);

INSERT INTO Users (UserID, Username, Passwords, FirstName, LastName, Email, PhoneNumber)

VALUES

(1, "angryBird", "SDFkjk8879", "Tom", "John", "tomjohn@gmail.com", 2069876785),

(2, "happylamp", "Ddfrghh78", "Abby", "John", "abbyyang@gmail.com", 2060877285);

INSERT INTO SitDown (RestaurantID, Capacity)

VALUES (1, 8), (4, 4);

```
INSERT INTO TakeOut (RestaurantID, MaxWaitTime)
VALUES (2, 30), (6, 15);
```

```
INSERT INTO FoodCart (RestaurantID, Licensed)
VALUES (3, true), (5, true);
```

```
INSERT INTO Review (UserID, RestaurantID, CreatedTime, ReviewContent, Rating)
VALUES
    (1, 3, NOW(), "great value and tast", 4.5),
    (2, 1, NOW(), "deliver fast", 4.0);
```

```
INSERT INTO Recommendation (UserID, RestaurantID, CreatedTime)
VALUES
    (1, 5, CURRENT_TIMESTAMP),
    (2, 6, CURRENT_TIMESTAMP);
```

```
INSERT INTO Reservation (RestaurantID, CreatedTime, StartTime, EndTime, PartySize)
VALUES
    (1, NOW(), '2024-02-10 18:00:00', '2024-02-10 20:00:00', 4),
    (2, NOW(), '2024-02-11 19:00:00', '2024-02-11 21:00:00', 6);
```

```
LOAD DATA LOCAL INFILE "/Users/a123/Desktop/creditcards.csv" INTO TABLE CardInformation
```

```
# creditcards.csv
-- CardNumber,Expiration,UserName
-- 4354545657567686,2029-09-01,Abby
-- 3567657687687878,2025-12-23,Tom
```