Car Rental Project: **Phase 2**

Task 1: Create the following 4 tables for the Car Rental Database

1. **CUSTOMER** table

```sql
CREATE TABLE CUSTOMER (
    CustID INTEGER NOT NULL,
    Name TEXT NOT NULL,
    Phone TEXT NOT NULL,
    PRIMARY KEY (CustID)
);
```

2. **RENTAL** table

```sql
CREATE TABLE RENTAL (
    CustID INTEGER NOT NULL,
    VehicleID TEXT NOT NULL,
    StartDate DATE NOT NULL,
    OrderDate DATE NOT NULL,

    RentalType INTEGER NOT NULL,
    Qty INTEGER NOT NULL,
    ReturnDate DATE NOT NULL,
    TotalAmount INTEGER NOT NULL,
    PaymentDate DATE,

    PRIMARY KEY (RentalID),
    FOREIGN KEY (CustID) REFERENCES CUSTOMER(CustID),
    FOREIGN KEY (VehicleID) REFERENCES Vehicle(VehicleID)
);
```

3. **VEHICLE** table

```sql
CREATE TABLE VEHICLE (
    VehicleID TEXT NOT NULL,
    Description TEXT NOT NULL,
    Year INTEGER NOT NULL,
    Type TEXT NOT NULL,
    Category INTEGER NOT NULL,

    PRIMARY KEY (VehicleID)
);
```

4. **RATE** table

```
CREATE TABLE RATE (
    Type INTEGER NOT NULL,
    Category INTEGER NOT NULL,
    Weekly INTEGER NOT NULL,
    Daily INTEGER NOT NULL,

    FOREIGN KEY (Type) REFERENCES VEHICLE(Type)
);
```

Task 2: Load the data from the text files into the corresponding tables

We ran the following commands to load the data from the text files into the corresponding tables.

```
.read taskone.sql ---this will create the tables from task 1
.mode csv
.import CUSTOMER.csv CUSTOMER
.import RENTAL.csv RENTAL
.import VEHICLE.csv VEHICLE
.import RATE.csv RATE
```

```
sqlite> SELECT COUNT(CustID) AS CUSTOMER_NUM FROM CUSTOMER;
CUSTOMER_NUM
-----------
31
sqlite> SELECT COUNT(CustID) AS RENTAL_NUM FROM RENTAL;
RENTAL_NUM
----------
23
sqlite> SELECT COUNT(VehicleID) AS VEHICLE_NUM FROM VEHICLE;
VEHICLE_NUM
----------
60
sqlite> SELECT COUNT(Type) AS RATE_NUM FROM RATE;
RATE_NUM
--------
10
```

Task 3: Then execute the following queries on the database tables:

1. Question 1: Insert yourself as a New Customer. Do not provide the CustomerID in your query.