Lab:- 9 & 10

Car Dealer management system

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DDL Statements

```
CREATE TABLE Car {
      car id numeric(6,0) PRIMARY KEY
      NOT NULL AUTO INCREMENT,
             numeric(7,0) NOT NULL,
      price
      colour varchar(10),
      model varchar(20) NOT NULL,
      fuel type varchar(10),
      add date date DEFAULT CURRENT DATE NOT NULL,
      car type varchar(5) CHECK(car type in
      ('rent', 'old', 'new')),
      FOREIGN KEY (model)
      REFERENCES Car company (Model)
};
CREATE TABLE Car company {
                varchar(20) PRIMARY KEY,
      Model
      company name varchar(20)
```

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};
CREATE TABLE Rental car{
      rental car id numeric(6,0) PRIMARY KEY,
      availability
                       varchar(1)
      CHECK(availability in ('Y', 'N')),
      FOREIGN KEY (rental car id)
      REFERENCES Car(car id)
};
CREATE TABLE Old car{
      car id numeric(6,0) PRIMARY KEY,
      safety ratings numeric (1,0)
      CHECK(safety ratings<=5 &&
  safety_ratings>=0),
      transmission type varchar(10),
      warranty year numeric(4,0),
      FOREIGN KEY (car id)
      REFERENCES Car(car id)
};
CREATE TABLE New car{
      car id numeric(6,0) PRIMARY KEY,
      year numeric(4,0),
      km numeric(6,0),
      seller id numeric(10,0),
      Description varchar (50),
      FOREIGN KEY (car id)
      REFERENCES Car(car id),
      FOREIGN KEY (seller id)
      REFERENCES Customers (customer id)
};
CREATE TABLE Customers{
      customer id varchar(50) PRIMARY KEY,
      first name varchar(15) NOT NULL,
      middle name varchar(15) NOT NULL,
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last name varchar(15) NOT NULL,
      street number numeric(3,0),
      area_name varchar(15),
      apt number
                  numeric(3,0),
                 varchar(10) NOT NULL,
      password
      pin code numeric(6,0) NOT NULL,
      FOREIGN KEY (pin code)
      REFERENCES Address(pin code)
};
CREATE TABLE Address{
      pin code numeric(6,0) PRIMARY KEY,
      city varchar(15),
      state varchar(15)
};
CREATE TABLE Phone no{
      customer id varchar(50) PRIMARY KEY,
      mobile no numeric (10,0),
      PRIMARY KEY (customer id, mobile no),
      FOREIGN KEY (customer id)
      REFERENCES Customers (customer id)
};
CREATE TABLE Transaction{
      Transaction id numeric(10,0) PRIMARY KEY,
      Amount numeric (10,0),
      Buyer ID varchar(50) NOT NULL,
      Seller ID varchar(50) NOT NULL,
             date DEFAULT CURRENT DATE NOT NULL,
      Date
              varchar(4) CHECK(Type in
  ('CtoA', 'MtoA', 'CtoC')),
      car id numeric(6,0),
      FOREIGN KEY (Buyer ID)
      REFERENCES Customers (customer id),
```

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FOREIGN KEY (Seller ID)
      REFERENCES Customers (customer id),
      FOREIGN KEY (customer id)
      REFERENCES Customers(customer id)
};
CREATE TABLE Admin{
      admin id varchar(50) PRIMARY KEY
      FOREIGN KEY (admin id)
      REFERENCES Customers (customer id)
};
CREATE TABLE Mechanic {
      mechanic id varchar(50) PRIMARY KEY,
      starting date date DEFAULT CURRENT DATE NOT
      NULL,
      rating numeric(1,0) CHECK(rating<=5 &&</pre>
      rating>=0),
      FOREIGN KEY (mechanic id)
      REFERENCES Customers (customer id)
};
CREATE TABLE Feedback{
      customer id varchar(50),
             timestamp DEFAULT CURRENT TIMESTAMP,
      time
      description varchar(50) NOT NULL,
      PRIMARY KEY (customer id, time),
      FOREIGN KEY (customer id)
      REFERENCES Customers (customer id)
};
CREATE TABLE Service Request{
      customer id varchar(50),
      request time timestamp DEFAULT
      CURRENT TIMESTAMP,
      description about service varchar(50)
      Mechanic id varchar(50),
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PRIMARY KEY (customer id, request time),
      FOREIGN KEY (customer id)
      REFERENCES Customers (customer id)
      FOREIGN KEY (Mechanic id)
      REFERENCES Mechanic (mechanic id)
};
CREATE TABLE Bargain Request{
      customer id varchar(50),
      car id numeric(6,0),
      price numeric(10,0),
      PRIMARY KEY(customer id, car id, price),
      request time timestamp DEFAULT
  CURRENT TIMESTAMP,
      accept time timestamp
      FOREIGN KEY (customer id)
      REFERENCES Customers (customer id)
      FOREIGN KEY (car id)
      REFERENCES Old car(car id)
};
CREATE TABLE Rent{
      car id numeric (6,0),
      customer id varchar(50),
      rented date date DEFAULT CURRENT DATE NOT
      NULL.
      due date date NOT NULL,
      PRIMARY KEY (customer id, car id, rented date),
      FOREIGN KEY (customer id)
      REFERENCES Customers (customer id)
      FOREIGN KEY (car id)
      REFERENCES Rental car(car id)
};
CREATE TABLE Buy newcar{
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car id numeric(6,0) PRIMARY KEY,
      customer id varchar(50),
      date date DEFAULT CURRENT DATE NOT NULL,
      FOREIGN KEY (car id)
      REFERENCES New car(car id)
};
CREATE TABLE Service accept{
      customer id varchar(50),
      request time timestamp DEFAULT
  CURRENT TIMESTAMP,
      mechanic id varchar (50),
      accept time timestamp,
      rating per service numeric(1,0)
      CHECK(rating per service<=5 &&
  rating_per_service >=0),
      PRIMARY KEY(customer_id, request_time),
      FOREIGN KEY (customer_id,request_time)
      REFERENCES Service Request
      (customer id, request time)
};
```