### **CAR DEALERSHIP APPLICATION**

#### **DATABASE DESIGN AND ENTITY RELATIONSHIP DIAGRAM**

DATABASE DESIGN
Step - 1
Create Database
create database cardealership;
Step - 2
Use Current Database
use cardealership;
Step - 3
Create Car Table:
CREATE TABLE Car ( id INT PRIMARY KEY
AUTO_INCREMENT, make VARCHAR(255), model
VARCHAR(255), year INT, price DECIMAL(10,
2) );

#### **View Structure of Car table**

### desc Car;

+   Field	, Type	+   Null	   Кеу	Default	   Extra		
model   year	int varchar(255) varchar(255) int decimal(10,2)	NO YES YES YES YES	PRI	NULL NULL NULL NULL NULL	auto_increment             		
++							

### Step - 5

#### **Create Customer Table:**

```
CREATE TABLE Customer ( id INT PRIMARY KEY AUTO_INCREMENT, name VARCHAR(255), email VARCHAR(255), phone VARCHAR(20));
```

# Step - 6

**View Structure of Customer table** 

#### desc Customer;

+	·		<b>+</b>	·	·			
Field	Туре	Null	Key	Default	Extra			
email	int   varchar(255)   varchar(255)   varchar(20)	NO YES YES YES	PRI	NULL NULL NULL NULL	auto_increment     			
4 rows in set (0.01 sec)								

# **Create Salesperson Table:**

```
CREATE TABLE Salesperson ( id INT PRIMARY KEY AUTO_INCREMENT, name VARCHAR(255), email VARCHAR(255), phone VARCHAR(20) );
```

# Step - 8

# **View Structure of Salesperson table**

#### desc Salesperson;

```
Field |
         Type
                         Null | Key | Default
                                                  Extra
                                                  auto_increment
 id
          int
                          NO
                                 PRI
                                       NULL
          varchar(255)
                          YES
                                       NULL
  name
          varchar(255)
                          YES
                                       NULL
          varchar(20)
                         YES
                                       NULL
4 rows in set (0.01 sec)
```

#### **Create Payment Table:**

```
CREATE TABLE Payment ( id INT PRIMARY KEY AUTO_INCREMENT, amount DECIMAL(10, 2), paymentMethod VARCHAR(50) );
```

**Step - 10** 

**View Structure of Payment table** 

#### desc Payment;

```
Field
                                 | Null | Key | Default | Extra
                 Type
 id
                                  NO
                                          PRI
                                                NULL
                                                          auto_increment
                  int
                  decimal(10,2)
                                  YES
                                                NULL
 paymentMethod | varchar(50)
                                 | YES
                                                NULL
3 rows in set (0.01 sec)
```

# **Step - 11**

#### **Create Sale Table:**

```
CREATE TABLE Sale ( id INT PRIMARY KEY AUTO_INCREMENT, saleDate DATE, carld INT, customerId INT, salespersonId INT, paymentId INT, FOREIGN KEY (carld)
```

```
REFERENCES Car(id), FOREIGN KEY

(customerId) REFERENCES Customer(id),

FOREIGN KEY (salespersonId) REFERENCES

Salesperson(id), FOREIGN KEY (paymentId)

REFERENCES Payment(id));
```

#### **View Structure of Sale table**

### desc Sale;

```
Field
                 Type | Null | Key | Default | Extra
 id
                  int
                         NO
                                 PRI
                                       NULL
                                                  auto_increment
 saleDate
                         YES
                                       NULL
                  date
 carId
                         YES
                  int
                                 MUL
                                       NULL
 customerId
                  int
                         YES
                                 MUL
                                       NULL
  salespersonId
                  int
                         YES
                                 MUL
                                       NULL
 paymentId
                  int
                         YES
                                 MUL
                                       NULL
6 rows in set (0.01 sec)
```

# **ENTITY RELATIONSHIP DIAGRAM**

