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));

Step - 4

View Structure of Car table

desc Car;

```
| Null | Key | Default | Extra
 Field | Type
 id
                          NO
                                 PRI |
                                        NULL
                                                  auto_increment
 make
          varchar(255)
                          YES
                                        NULL
         varchar(255)
 model
                          YES
                                        NULL
                          YES
         int
                                        NULL
        | decimal(10,2) | YES
 price
                                        NULL
5 rows in set (0.03 sec)
```

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;

+	Туре	 Null	Key	Default	
id name email phone	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))			•

Step - 7

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
                         YES
          varchar(255)
                                       NULL
  name
          varchar(255)
  email
                         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
                                                          auto_increment
 id
                                          PRI
                                                NULL
                                  NO
                  decimal(10,2)
                                  YES
                                                NULL
 amount
 paymentMethod | varchar(50)
                                 l YES
                                                NULL
3 rows in set (0.01 sec)
```

Step - 9

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) );
```

Step - 10

View Structure of Sale table

desc Sale;

Field	+ Type	Null	 Key	Default	 Extra
id saleDate carId customerId salespersonId paymentId	int date int int int	NO YES YES YES YES YES YES	PRI MUL MUL MUL MUL	NULL NULL NULL NULL NULL	auto_increment

