

## Dealership Database Report

Description: This is a car dealership database that stores customer, dealership, salesperson, manufacturer, and car data into one database. This database application helps dealerships organize, store, and retrieve data enabling them to access valuable insights and relevant information as needed.

SQL Code:

```
create table Customer
(CustomerID int,
FirstName varchar(50),
LastName varchar(50),
State varchar(50),
ZipCode int,
City varchar(50) Primary
key (CustomerID));
```

```
create table Dealership
(DealershipID int,
Phone int,
City varchar(50),
DealershipName varchar(50),
Primary key (DealershipID));
```

```
create table SalesPerson
(SalesPersonID int,
FirstName varchar(50),
LastName varchar(50),
Email varchar(50),
City varchar(50),
StateName varchar(50),
DealershipID int,
Primary key (SalesPersonID),
Foreign key (DealershipID) references Dealership);
```

```
create table Sale
(SaleID int,
SaleDate date,
```

CustomerID int,  
SalesPersonID int,  
Primary key (SaleID),  
Foreign key (CustomerID) references Customer,  
Foreign key (SalesPersonID) references SalesPerson);

create table Manufacturer  
(ManufacturerID int,  
Phone int,  
ManufacturerName varchar(50),  
City varchar(50),  
StateName varchar(50)  
Primary key (ManufacturerID));

create table Car  
(CarID int,  
ManufacturerID int,  
DealershipID int,  
Price int,  
Color varchar(50),  
YearDate int,  
Make varchar(50),  
Model varchar(50),  
Primary key (CarID),  
Foreign key (ManufacturerID) references Manufacturer,  
Foreign key (DealershipID) references Dealership);

insert into Car values  
(100, 4, 1, null, null, null, 'Tesla', 'Model Y'),  
(101, 4, 1, null, null, null, 'Audi' , 'A4'),  
(102, 4, 1, null, null, null, 'Chevrolet' , 'Camaro')  
(218, 7, 1, 74700, 'black',2023, 'BMW', 'M4')  
(28, 5, 1, 6600, 'gray', 2010, 'Honda','Civic')  
(3, 4, 1, 12000, 'black', 2014,'Ford','Mustang'),  
(7, 4, 1, 9999, 'red', 2011, 'Ford','Mustang'),  
(9, 4, 1, 17000, 'gray', 2018, 'Ford','Mustang'),  
(12, 4, 1, 19000, 'white', 2020, 'Ford','Mustang'),  
(15, 4, 1, 14500, 'yellow', 2016, 'Ford','Mustang')

insert into Manufacturer values

(7, null, 'BMW','Los Angeles','CA')

(5, null, 'Honda', 'Los Angeles', 'CA')

(4, 323456987, 'Ford', 'San Diego', 'CA')

insert into Dealership values (1, null,

'San Diego', 'San Diego Cars')

insert into Salesperson values

(27, 'Kori', 'Gregory', 'kori@SDcars.com','San Diego', 'CA', 1),

(69, 'Devon', 'Brady', 'Devon@SDcars.com', 'San Diego','CA', 1),

(46, 'Andrea', 'Garcia', 'Andrea@SDcars.com','San Diego', 'CA',1),

(89, 'Roberto', 'Diaz', 'Roberto@SDcars.com','San Diego','CA',1)

-- Manager wants to email all employees at a dealership

```
-- select Firstname, Lastname, Email
from salesperson
where dealershipid = 1
```

200 %

Results Messages

	Firstname	Lastname	Email
1	Kori	Gregory	kori@SDcars.com
2	Andrea	Garcia	Andrea@SDcars.com
3	Devon	Brady	Devon@SDcars.com
4	Roberto	Diaz	Roberto@SDcars.com

--Customer wants to know what Mustangs are under \$20,000

```
-- select *
from Car
where model = 'mustang' and not price > 20000
```

200 %

Results Messages

	CarID	ManufacturerID	DealershipID	Price	Color	YearDate	Make	Model
1	3	4	1	12000	black	2014	Ford	Mustang
2	7	4	1	9999	red	2011	Ford	Mustang
3	9	4	1	17000	gray	2018	Ford	Mustang
4	12	4	1	19000	white	2020	Ford	Mustang
5	15	4	1	14500	yellow	2016	Ford	Mustang

--Manager wants to find out the make and model of cars manufactured in CA

```
select distinct Make, Model
from car c
join manufacturer m on c.manufacturerid=m.manufacturerid
where Statename = 'CA'
```

200 %

Results Messages

	Make	Model
1	Audi	A4
2	BMW	M4
3	Chevrolet	Camaro
4	Ford	Mustang
5	Honda	Civic
6	Tesla	Model Y

--Employee wants to know the highest, lowest, and average price of cars at the dealership

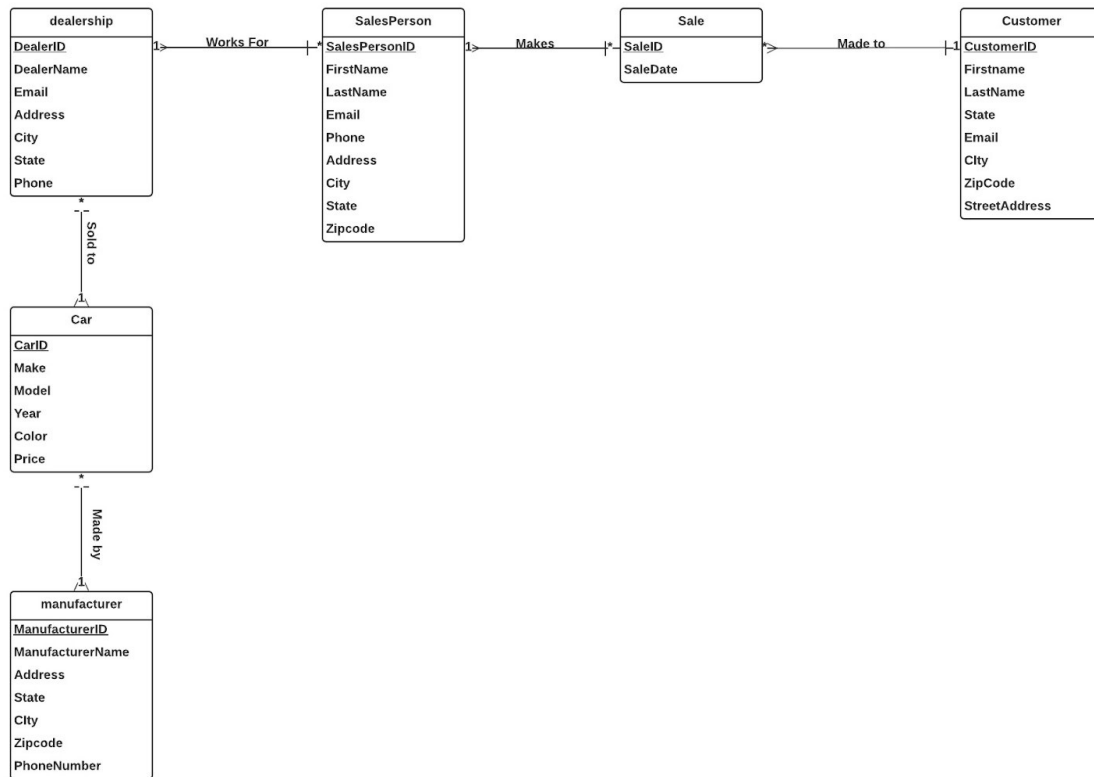
```
select min(Price) as 'Lowest Price', max(Price) as 'Highest Price' ,
avg(Price) as 'Average Price'
from car
where dealershipid = 1
```

200 %

Results Messages

	Lowest Price	Highest Price	Average Price
1	6600	74700	21971

ERD:



UML:

