

Dataset Exploration:

--Find the average price of cars in the dataset.

```
SELECT AVG(Price) AS AvgPrice
FROM Cars_information ;
```

--Calculate the number of cars with leather interior that are cheaper than \$1400.

```
SELECT COUNT(*) AS "number of cars with leather interior that
are cheaper than $1400"
FROM Cars_information
WHERE ("Leather_interior" = 1 AND Price < 1400);
```

--Get the maximum price of Toyota cars produced in 2011.

```
SELECT MAX(Price) AS "maximum price of Toyota cars produced in
2011"
FROM Cars_information
WHERE (Manufacturer = 'TOYOTA' AND Prod_year = 2011);
```

--Sort the car manufacturers according to the average price of their cars descendingly.

```
SELECT Manufacturer , AVG(Price) AS avgPrice
FROM Cars_information
GROUP BY Manufacturer
ORDER BY avgPrice
```

--Calculate the percentage of cars that use petrol fuel only among cars with category Jeep.

```
SELECT
    ROUND(100.0 * COUNT(*) / (SELECT COUNT(*) FROM
Cars_information WHERE Manufacturer = 'JEEP'), 2) AS
Percentage
FROM Cars_information
WHERE Manufacturer = 'JEEP' AND Fuel_type = 'Petrol';
```

--Find the cheapest car(s) in the dataset. (If multiple cars have the same lowest price, return all of them.)

```
SELECT ID ,Manufacturer,Price
FROM Cars_information
WHERE Price = (SELECT MIN(Price) FROM Cars_information);
```

```
--Find the percentage of Toyota cars that are above the  
average price of all cars.  
SELECT  
ROUND(100.0 * COUNT(*) / (SELECT COUNT(*) FROM  
Cars_information WHERE Manufacturer = 'TOYOTA'),2) AS  
Percentage  
FROM Cars_information  
WHERE Price > (SELECT AVG(Price) FROM Cars_information);
```