SQL MINI PROJECT L1

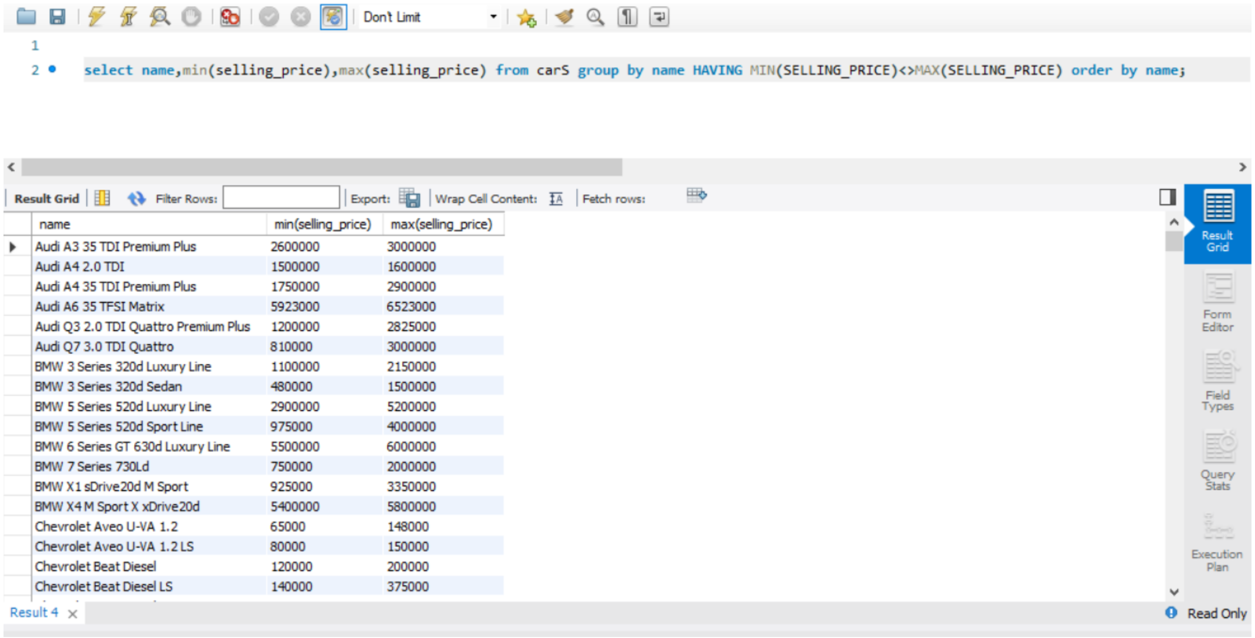
1-Which car names have different selling prices in the table, and what are the lowest and highest prices for each of them?

QUERRY

select name,min(selling_price),max(selling_price)

from cars group by name

HAVING MIN(SELLING_PRICE)<>MAX(SELLING_PRICE) order by name;



```
select name,min(selling_price),max(selling_price) from carS group by name HAVING MIN(SELLING_PRICE)<>MAX(SELLING_PRICE) order by name;
```

name	min(selling_price)	max(selling_price)
Audi A3 35 TDI Premium Plus	2600000	3000000
Audi A4 2.0 TDI	1500000	1600000
Audi A4 35 TDI Premium Plus	1750000	2900000
Audi A6 35 TFSI Matrix	5923000	6523000
Audi Q3 2.0 TDI Quattro Premium Plus	1200000	2825000
Audi Q7 3.0 TDI Quattro	810000	3000000
BMW 3 Series 320d Luxury Line	1100000	2150000
BMW 3 Series 320d Sedan	480000	1500000
BMW 5 Series 520d Luxury Line	2900000	5200000
BMW 5 Series 520d Sport Line	975000	4000000
BMW 6 Series GT 630d Luxury Line	5500000	6000000
BMW 7 Series 730Ld	750000	2000000
BMW X1 sDrive20d M Sport	925000	3350000
BMW X4 M Sport X xDrive20d	5400000	5800000
Chevrolet Aveo U-VA 1.2	65000	148000
Chevrolet Aveo U-VA 1.2 LS	80000	150000
Chevrolet Beat Diesel	120000	200000
Chevrolet Beat Diesel LS	140000	375000

2-How many cars of each brand are there in the table, and which brand has the least number of cars?

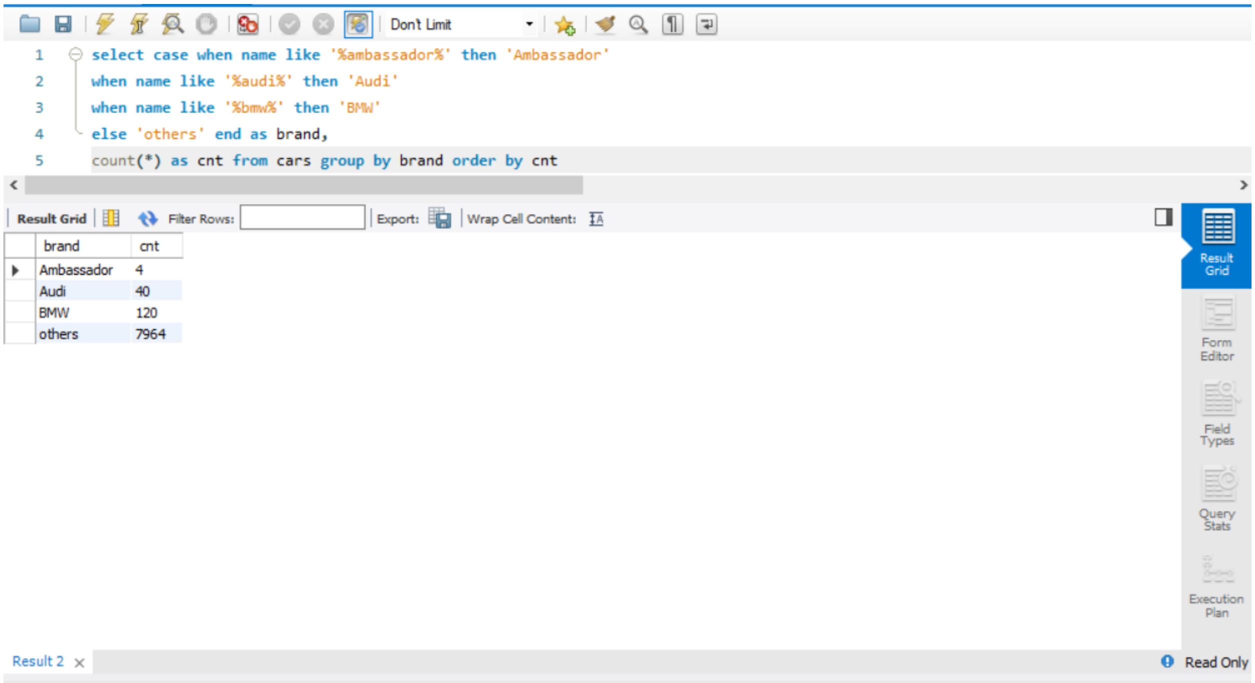
QUERRY

select case when name like '%ambassador%' then 'Ambassador'

when name like '%audi%' then 'Audi'

when name like '%bmw%' then 'BMW'

else 'others' end as brand,count(*) as cnt from cars group by brand order by cnt



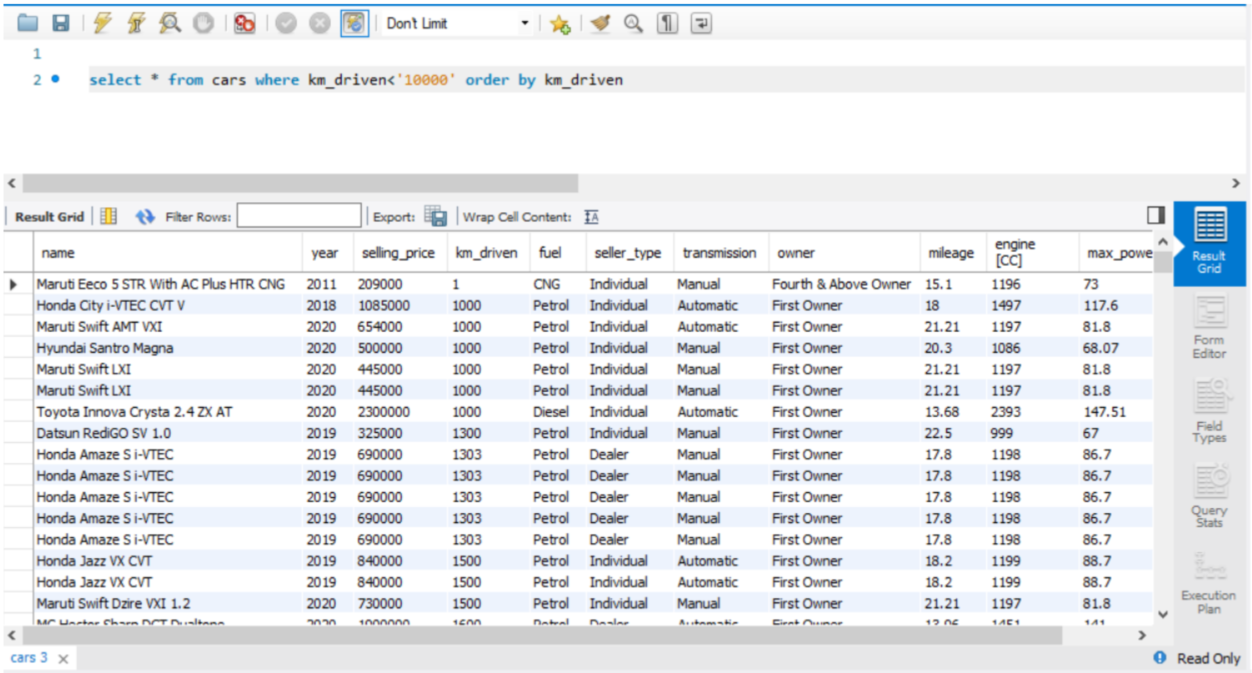
```
select case when name like '%ambassador%' then 'Ambassador'
when name like '%audi%' then 'Audi'
when name like '%bmw%' then 'BMW'
else 'others' end as brand,
count(*) as cnt from cars group by brand order by cnt
```

brand	cnt
Ambassador	4
Audi	40
BMW	120
others	7964

3-WHICH CAR HAS DRIVEN LESS THAN 10000 KM.

QUERRY

select * from cars where km_driven<'10000' order by km_driven



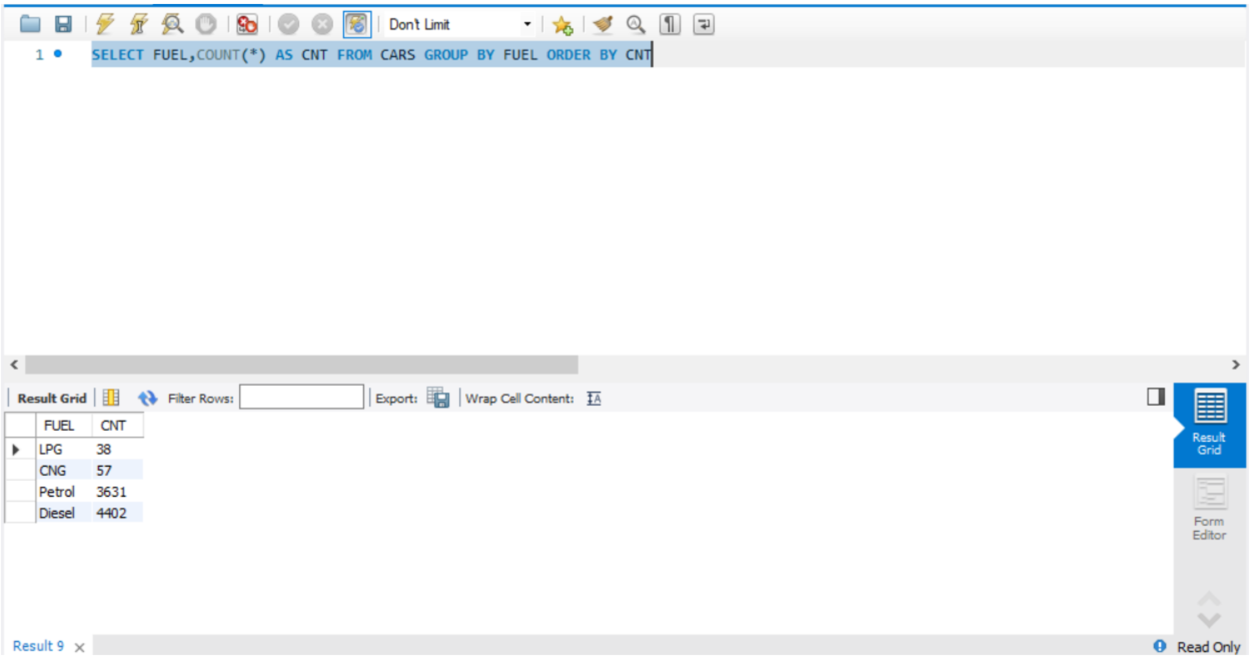
```
select * from cars where km_driven<'10000' order by km_driven
```

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_powe
Maruti Eeco 5 STR With AC Plus HTR CNG	2011	209000	1	CNG	Individual	Manual	Fourth & Above Owner	15.1	1196	73
Honda City i-VTEC CVT V	2018	1085000	1000	Petrol	Individual	Automatic	First Owner	18	1497	117.6
Maruti Swift AMT VXI	2020	654000	1000	Petrol	Individual	Automatic	First Owner	21.21	1197	81.8
Hyundai Santro Magna	2020	500000	1000	Petrol	Individual	Manual	First Owner	20.3	1086	68.07
Maruti Swift LXI	2020	445000	1000	Petrol	Individual	Manual	First Owner	21.21	1197	81.8
Maruti Swift LXI	2020	445000	1000	Petrol	Individual	Manual	First Owner	21.21	1197	81.8
Toyota Innova Crysta 2.4 ZX AT	2020	2300000	1000	Diesel	Individual	Automatic	First Owner	13.68	2393	147.51
Datsun RediGO SV 1.0	2019	325000	1300	Petrol	Individual	Manual	First Owner	22.5	999	67
Honda Amaze S i-VTEC	2019	690000	1303	Petrol	Dealer	Manual	First Owner	17.8	1198	86.7
Honda Amaze S i-VTEC	2019	690000	1303	Petrol	Dealer	Manual	First Owner	17.8	1198	86.7
Honda Amaze S i-VTEC	2019	690000	1303	Petrol	Dealer	Manual	First Owner	17.8	1198	86.7
Honda Amaze S i-VTEC	2019	690000	1303	Petrol	Dealer	Manual	First Owner	17.8	1198	86.7
Honda Amaze S i-VTEC	2019	690000	1303	Petrol	Dealer	Manual	First Owner	17.8	1198	86.7
Honda Jazz VX CVT	2019	840000	1500	Petrol	Individual	Automatic	First Owner	18.2	1199	88.7
Honda Jazz VX CVT	2019	840000	1500	Petrol	Individual	Automatic	First Owner	18.2	1199	88.7
Maruti Swift Dzire VXI 1.2	2020	730000	1500	Petrol	Individual	Manual	First Owner	21.21	1197	81.8
MG Hector Sharp DCT Dualtone	2020	1000000	1600	Petrol	Dealer	Automatic	First Owner	13.96	1451	141

4- How many cars of each fuel type are there in the table, and which fuel type has the least number of cars?

QUERRY

SELECT FUEL,COUNT(*) AS CNT FROM CARS GROUP BY FUEL ORDER BY CNT



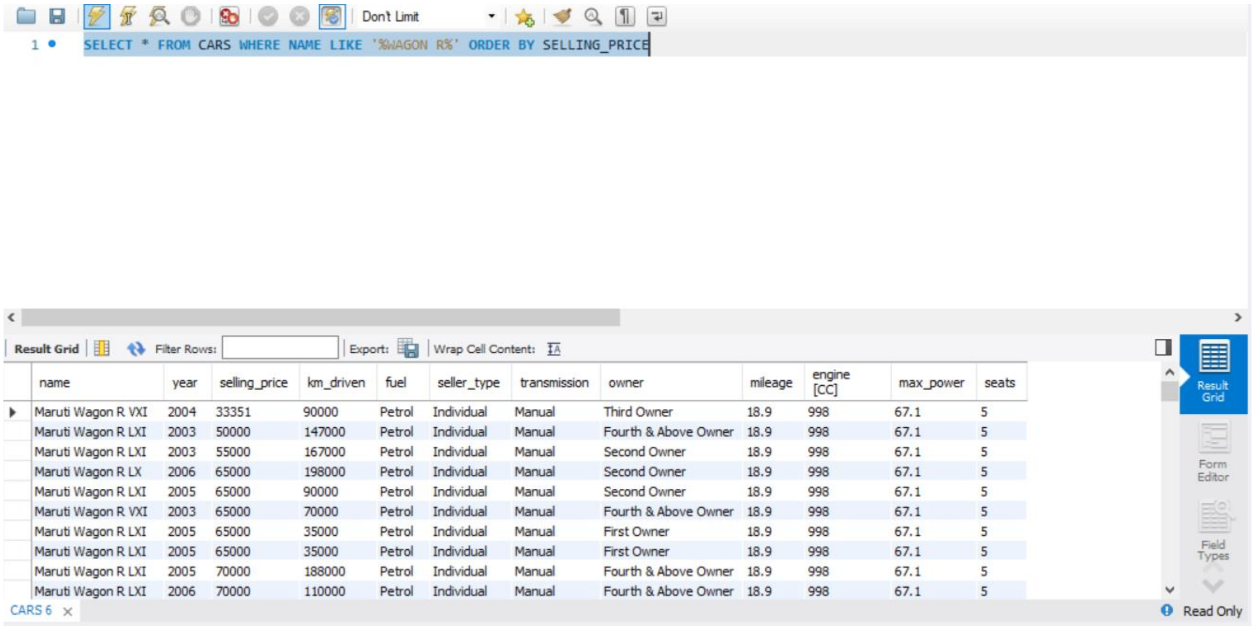
```
1 ● SELECT FUEL,COUNT(*) AS CNT FROM CARS GROUP BY FUEL ORDER BY CNT
```

FUEL	CNT
LPG	38
CNG	57
Petrol	3631
Diesel	4402

5- Print all information about a particular car.

QUERRY

SELECT * FROM CARS WHERE NAME LIKE '%WAGON R%' ORDER BY SELLING_PRICE



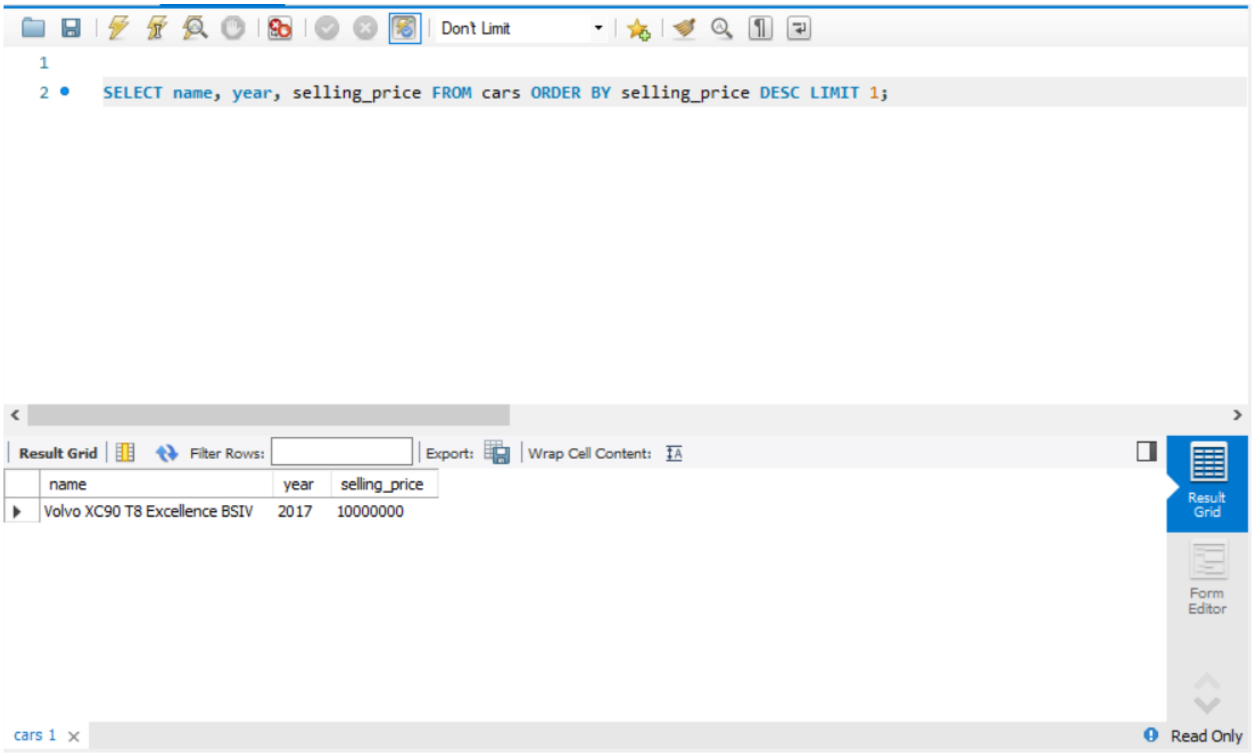
```
1 ● SELECT * FROM CARS WHERE NAME LIKE '%WAGON R%' ORDER BY SELLING_PRICE
```

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Maruti Wagon R VXI	2004	33351	90000	Petrol	Individual	Manual	Third Owner	18.9	998	67.1	5
Maruti Wagon R LXI	2003	50000	147000	Petrol	Individual	Manual	Fourth & Above Owner	18.9	998	67.1	5
Maruti Wagon R LXI	2003	55000	167000	Petrol	Individual	Manual	Second Owner	18.9	998	67.1	5
Maruti Wagon R LX	2006	65000	198000	Petrol	Individual	Manual	Second Owner	18.9	998	67.1	5
Maruti Wagon R LXI	2005	65000	90000	Petrol	Individual	Manual	Second Owner	18.9	998	67.1	5
Maruti Wagon R VXI	2003	65000	70000	Petrol	Individual	Manual	Fourth & Above Owner	18.9	998	67.1	5
Maruti Wagon R LXI	2005	65000	35000	Petrol	Individual	Manual	First Owner	18.9	998	67.1	5
Maruti Wagon R LXI	2005	65000	35000	Petrol	Individual	Manual	First Owner	18.9	998	67.1	5
Maruti Wagon R LXI	2005	70000	188000	Petrol	Individual	Manual	Fourth & Above Owner	18.9	998	67.1	5
Maruti Wagon R LXI	2006	70000	110000	Petrol	Individual	Manual	Fourth & Above Owner	18.9	998	67.1	5

6-WHICH IS THE MOST VALUED CAR IN THE TABLE?

QUERRY

SELECT name, year, selling_price FROM cars ORDER BY selling_price DESC LIMIT 1;

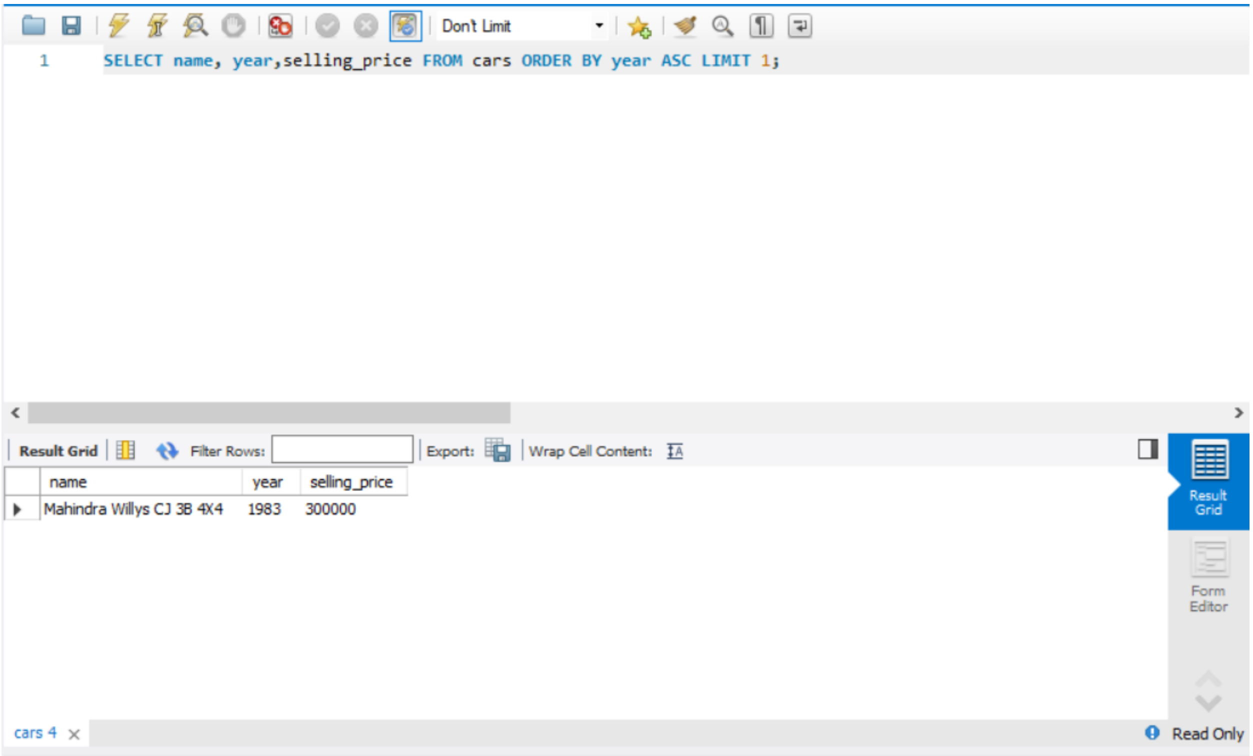


```
SELECT name, year, selling_price FROM cars ORDER BY selling_price DESC LIMIT 1;
```

name	year	selling_price
Volvo XC90 T8 Excellence BSIV	2017	10000000

7- WHAT IS THE OLDEST YEAR OF CAR IN CARS TABLE?

SELECT name, year, selling_price FROM cars ORDER BY YEAR ASC LIMIT 1;



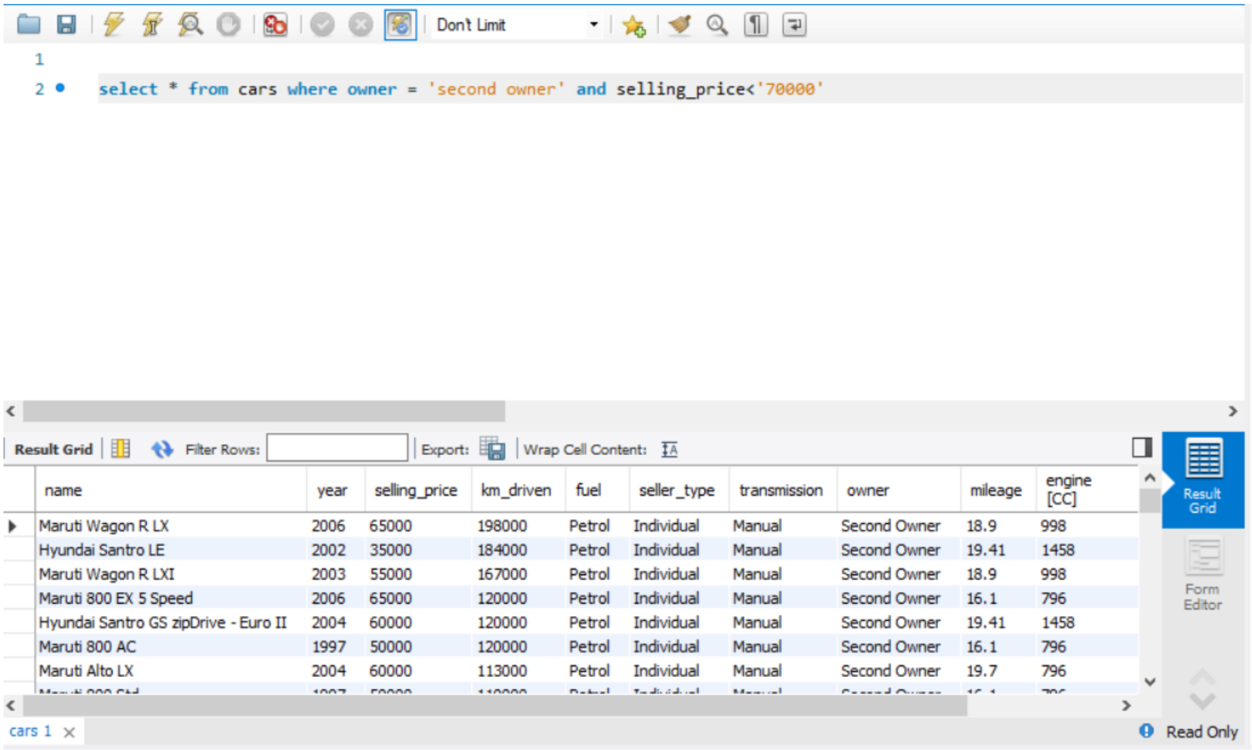
```
SELECT name, year,selling_price FROM cars ORDER BY year ASC LIMIT 1;
```

name	year	selling_price
Mahindra Willys CJ 3B 4X4	1983	300000

8- Which car is selling by second owner and price below 70000

Querry

select * from cars where owner = 'second owner' and selling_price<'70000' ;



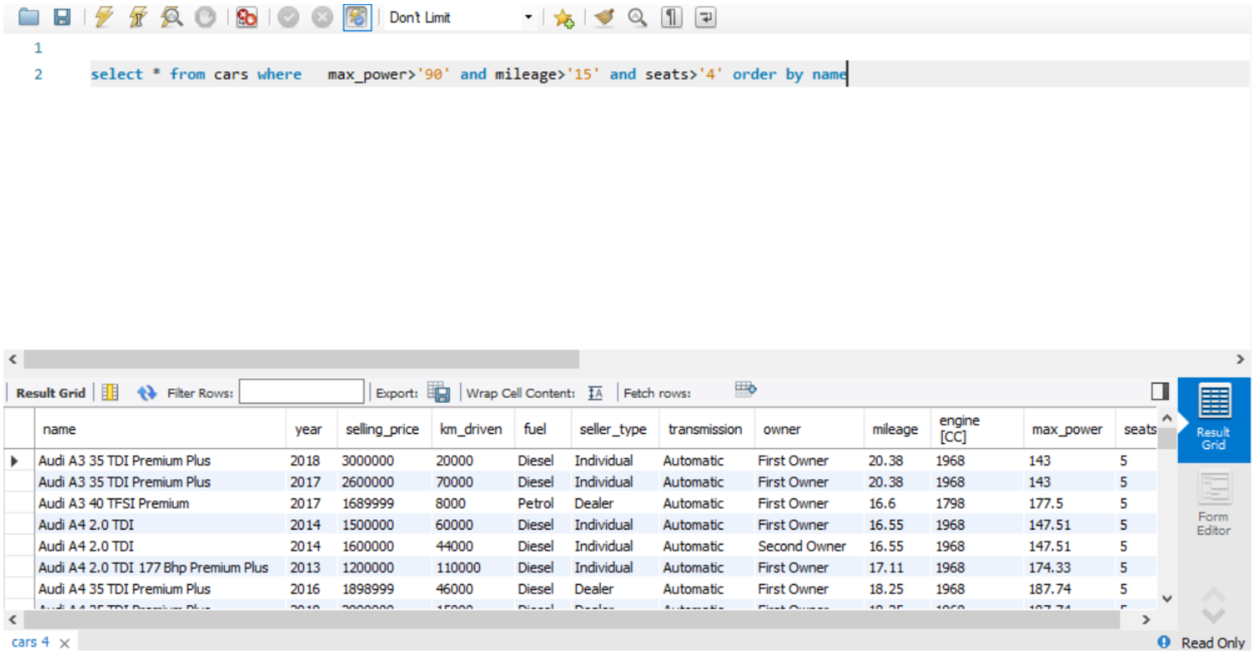
```
select * from cars where owner = 'second owner' and selling_price<'70000'
```

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]
Maruti Wagon R LX	2006	65000	198000	Petrol	Individual	Manual	Second Owner	18.9	998
Hyundai Santro LE	2002	35000	184000	Petrol	Individual	Manual	Second Owner	19.41	1458
Maruti Wagon R LXI	2003	55000	167000	Petrol	Individual	Manual	Second Owner	18.9	998
Maruti 800 EX 5 Speed	2006	65000	120000	Petrol	Individual	Manual	Second Owner	16.1	796
Hyundai Santro GS zipDrive - Euro II	2004	60000	120000	Petrol	Individual	Manual	Second Owner	19.41	1458
Maruti 800 AC	1997	50000	120000	Petrol	Individual	Manual	Second Owner	16.1	796
Maruti Alto LX	2004	60000	113000	Petrol	Individual	Manual	Second Owner	19.7	796

9- Which cars have high performance, good fuel efficiency,Enough seats and what are their details?

QUERRY

select * from cars where   max_power>'90' and mileage>'15' and seats>'4';



```
select * from cars where   max_power>'90' and mileage>'15' and seats>'4' order by name
```

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Audi A3 35 TDI Premium Plus	2018	3000000	20000	Diesel	Individual	Automatic	First Owner	20.38	1968	143	5
Audi A3 35 TDI Premium Plus	2017	2600000	70000	Diesel	Individual	Automatic	First Owner	20.38	1968	143	5
Audi A3 40 TFSI Premium	2017	1689999	8000	Petrol	Dealer	Automatic	First Owner	16.6	1798	177.5	5
Audi A4 2.0 TDI	2014	1500000	60000	Diesel	Individual	Automatic	First Owner	16.55	1968	147.51	5
Audi A4 2.0 TDI	2014	1600000	44000	Diesel	Individual	Automatic	Second Owner	16.55	1968	147.51	5
Audi A4 2.0 TDI 177 Bhp Premium Plus	2013	1200000	110000	Diesel	Individual	Automatic	First Owner	17.11	1968	174.33	5
Audi A4 35 TDI Premium Plus	2016	1898999	46000	Diesel	Dealer	Automatic	First Owner	18.25	1968	187.74	5

10-caterise the table in 3 different price ranges low(below 70000),medium(between 70000 and 700000) and high(more than 700000).

QUERRY

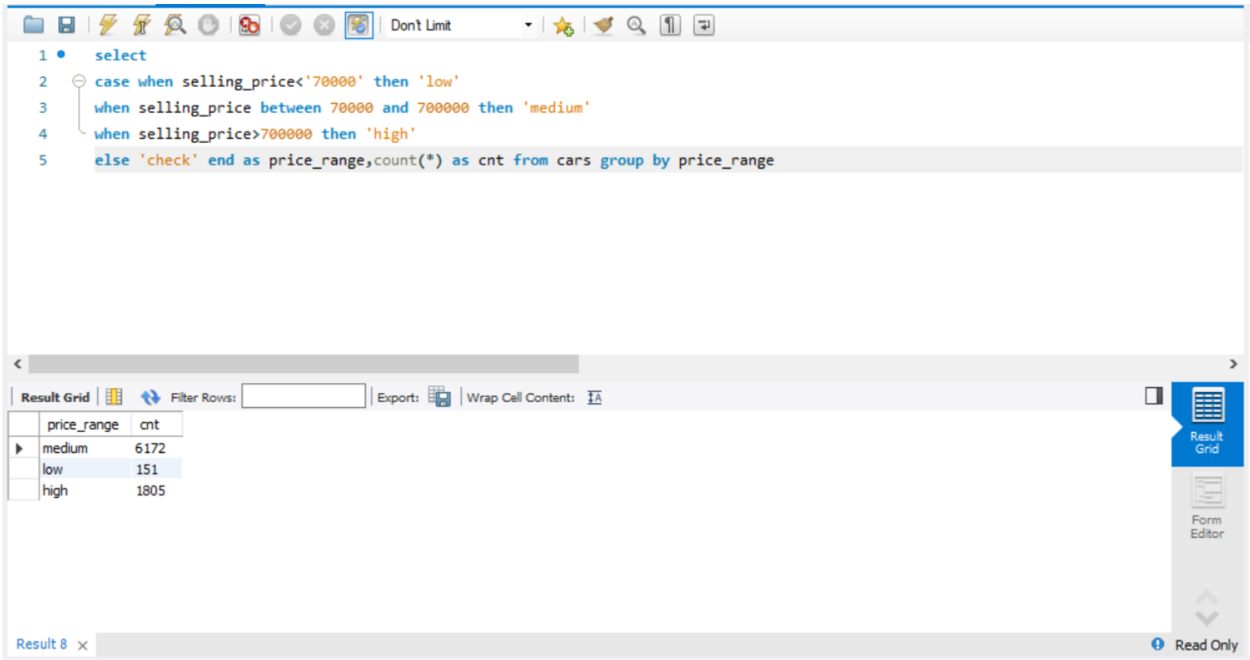
```
select

case when selling_price<'70000' then 'low'

when selling_price between 70000 and 700000 then 'medium'

when selling_price>700000 then 'high'

else 'check' end as price_range,count(*) as cnt from cars group by price_range;
```



```
select
case when selling_price<'70000' then 'low'
when selling_price between 70000 and 700000 then 'medium'
when selling_price>700000 then 'high'
else 'check' end as price_range,count(*) as cnt from cars group by price_range
```

price_range	cnt
medium	6172
low	151
high	1805

11- Count every car's quantity in the table

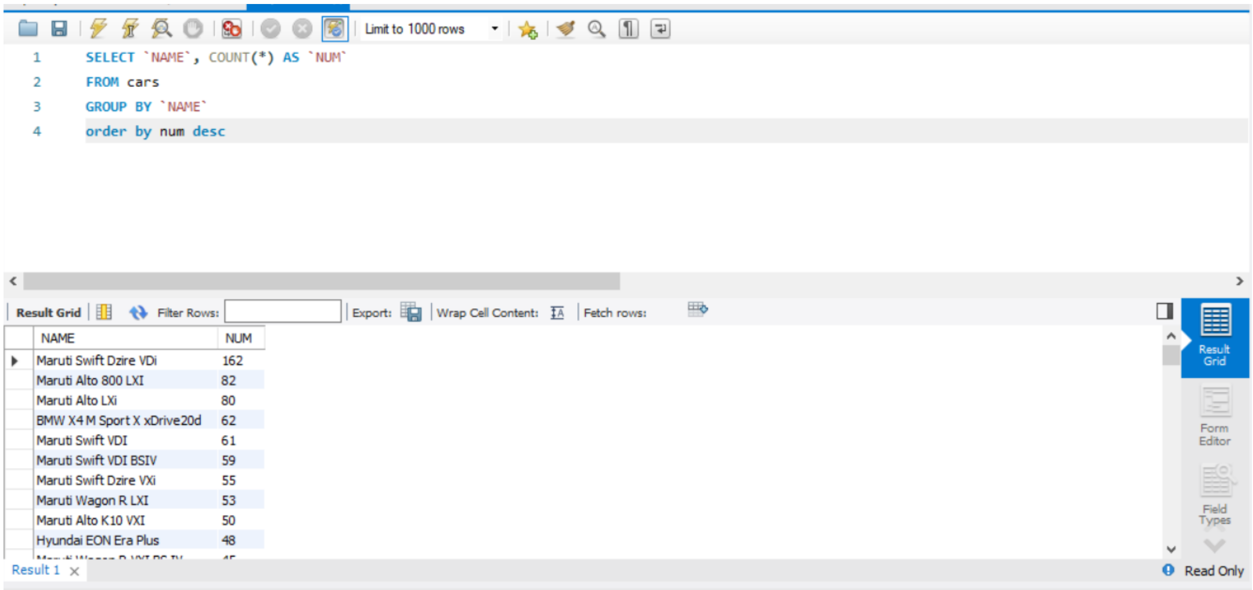
Querry

```
SELECT `NAME`, COUNT(*) AS `NUM`

FROM cars

GROUP BY `NAME`

order by num desc
```



```sql
SELECT `NAME`, COUNT(*) AS `NUM`
FROM cars
GROUP BY `NAME`
order by num desc
```

NAME	NUM
Maruti Swift Dzire VDi	162
Maruti Alto 800 LXI	82
Maruti Alto LXi	80
BMW X4 M Sport X xDrive20d	62
Maruti Swift VDI	61
Maruti Swift VDI BSIV	59
Maruti Swift Dzire VXi	55
Maruti Wagon R LXI	53
Maruti Alto K10 VXI	50
Hyundai EON Era Plus	48
Maruti Wagon R VXI BS IV	45