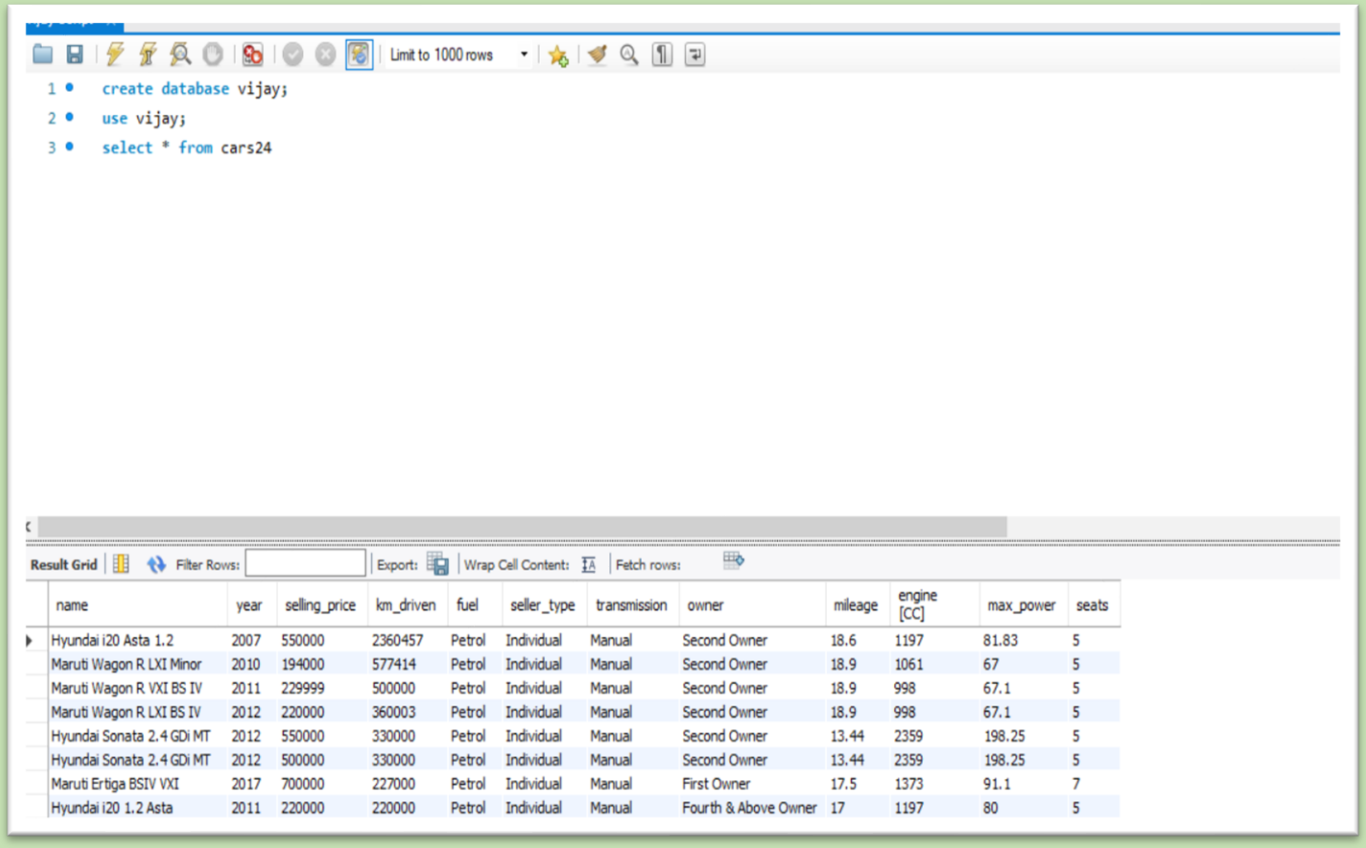
NAME : VIJAYKUMAR

DATA ANALYTICS SQL- MINI PROJECT

Insight no 1

To read the whole table

```
select * from cars24;
```



```
1 • create database vijay;
2 • use vijay;
3 • select * from cars24
```

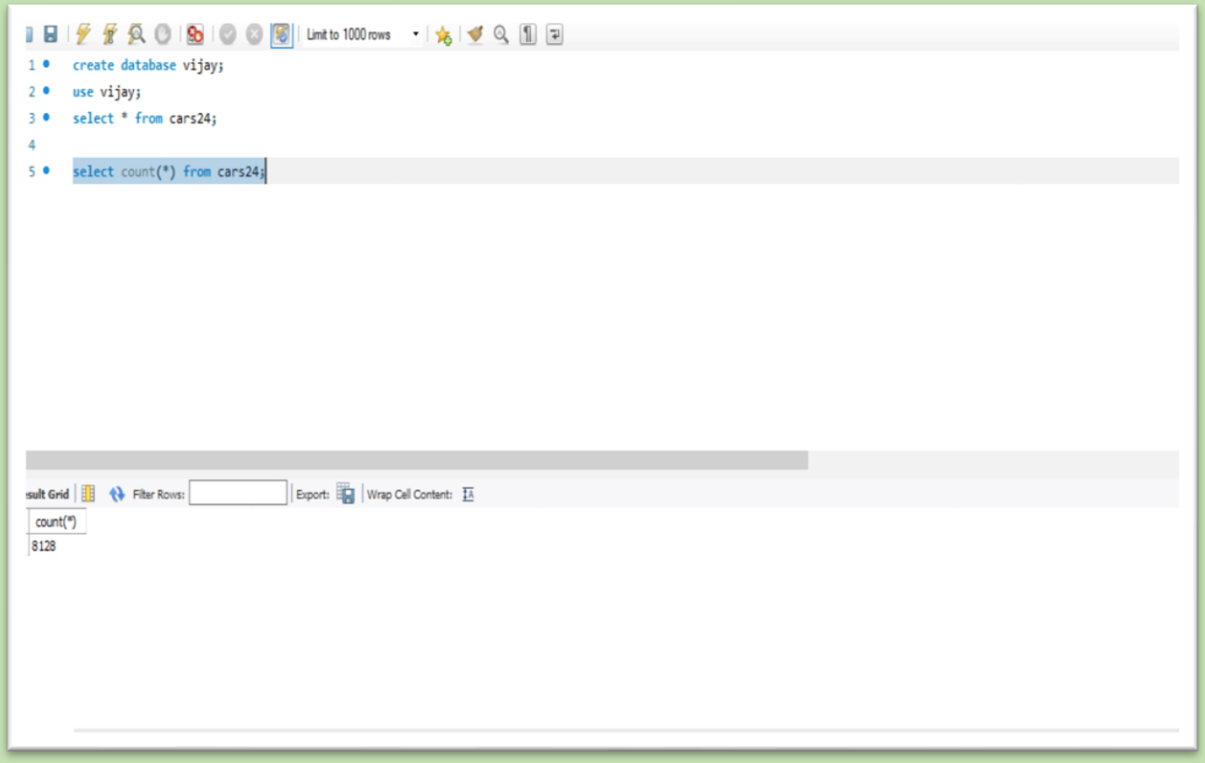
Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Hyundai i20 Asta 1.2	2007	550000	2360457	Petrol	Individual	Manual	Second Owner	18.6	1197	81.83	5
Maruti Wagon R LXI Minor	2010	194000	577414	Petrol	Individual	Manual	Second Owner	18.9	1061	67	5
Maruti Wagon R VXI BS IV	2011	229999	500000	Petrol	Individual	Manual	Second Owner	18.9	998	67.1	5
Maruti Wagon R LXI BS IV	2012	220000	360003	Petrol	Individual	Manual	Second Owner	18.9	998	67.1	5
Hyundai Sonata 2.4 GDi MT	2012	550000	330000	Petrol	Individual	Manual	Second Owner	13.44	2359	198.25	5
Hyundai Sonata 2.4 GDi MT	2012	500000	330000	Petrol	Individual	Manual	Second Owner	13.44	2359	198.25	5
Maruti Ertiga BSIV VXI	2017	700000	227000	Petrol	Individual	Manual	First Owner	17.5	1373	91.1	7
Hyundai i20 1.2 Asta	2011	220000	220000	Petrol	Individual	Manual	Fourth & Above Owner	17	1197	80	5

Insight no 2

To count all from table

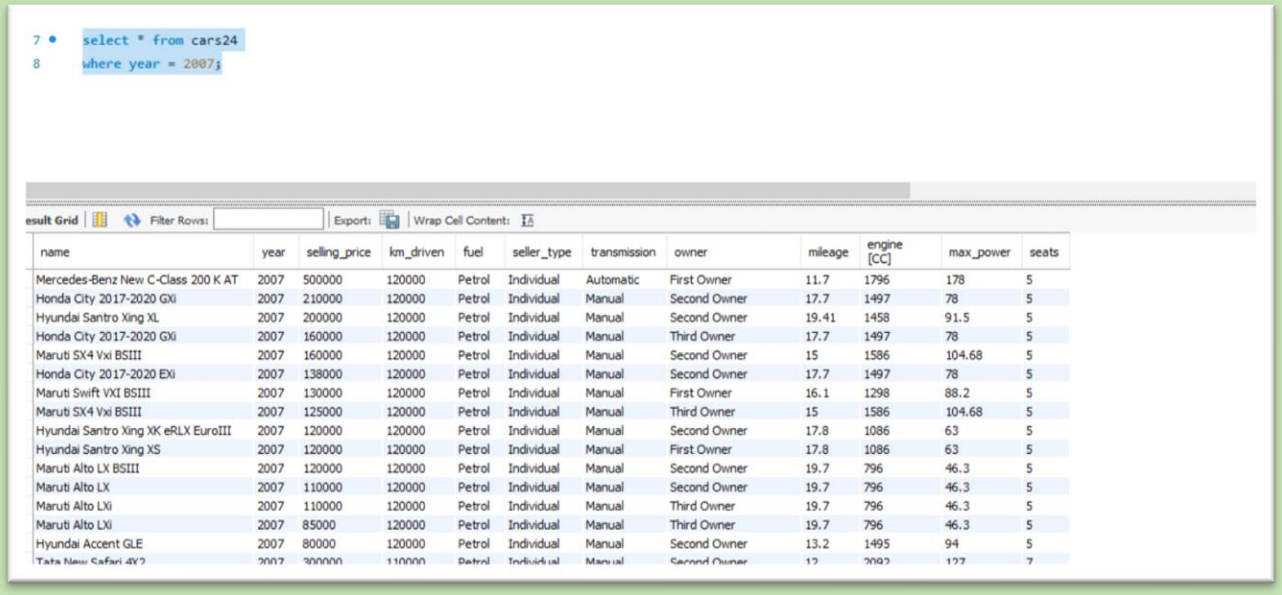
select count(*) from cars24;



Insight no 3

To find the all details of the car in the year 2007

```
select * from cars24
where year = 2007;
```



```
7 •  select * from cars24
8    where year = 2007;
```

esult Grid | Filter Rows: | Export: | Wrap Cell Content:

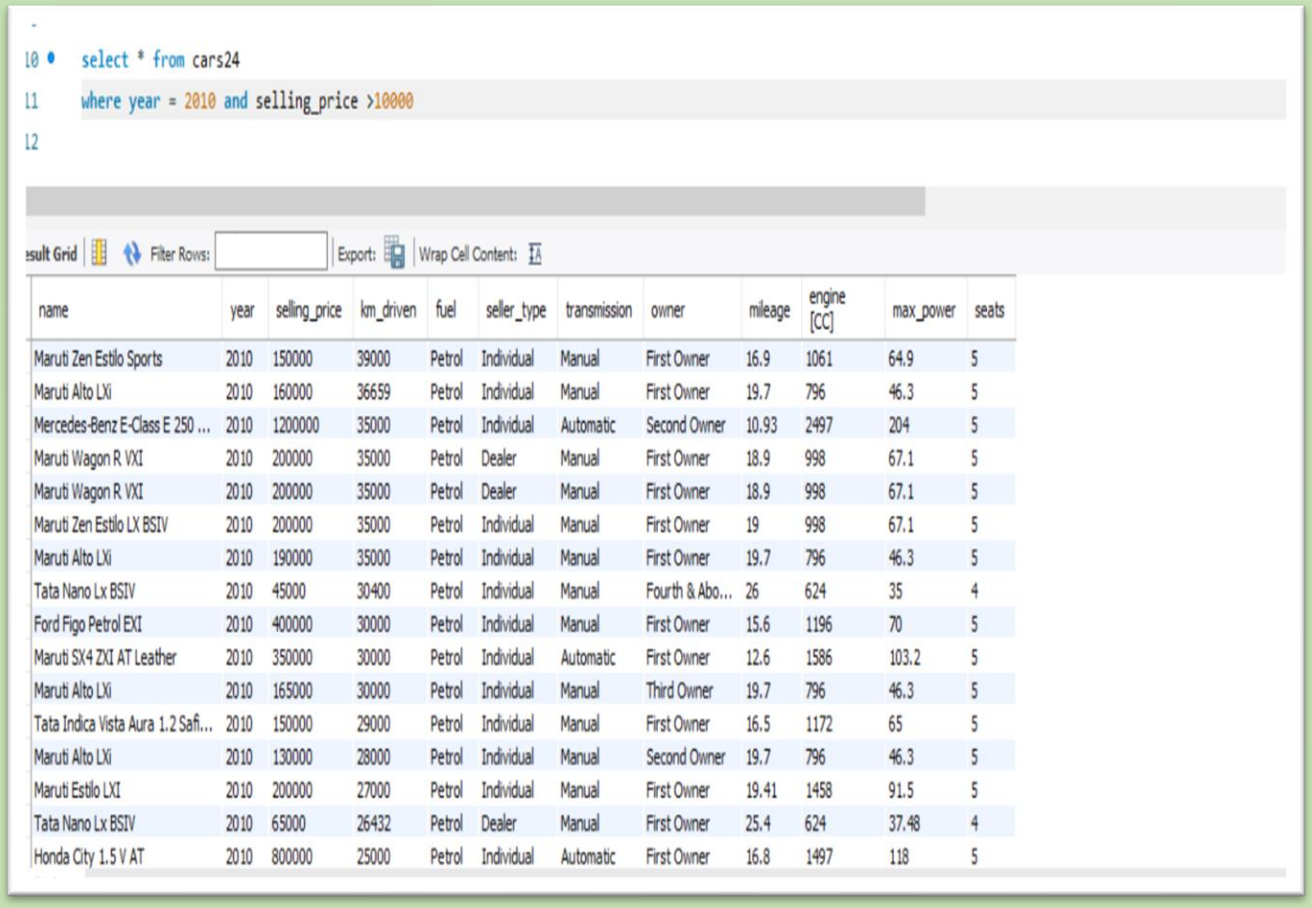
name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Mercedes-Benz New C-Class 200 K AT	2007	500000	120000	Petrol	Individual	Automatic	First Owner	11.7	1796	178	5
Honda City 2017-2020 GXi	2007	210000	120000	Petrol	Individual	Manual	Second Owner	17.7	1497	78	5
Hyundai Santro Xing XL	2007	200000	120000	Petrol	Individual	Manual	Second Owner	19.41	1458	91.5	5
Honda City 2017-2020 GXi	2007	160000	120000	Petrol	Individual	Manual	Third Owner	17.7	1497	78	5
Maruti SX4 Vxi BSIII	2007	160000	120000	Petrol	Individual	Manual	Second Owner	15	1586	104.68	5
Honda City 2017-2020 EXi	2007	138000	120000	Petrol	Individual	Manual	Second Owner	17.7	1497	78	5
Maruti Swift VXI BSIII	2007	130000	120000	Petrol	Individual	Manual	First Owner	16.1	1298	88.2	5
Maruti SX4 Vxi BSIII	2007	125000	120000	Petrol	Individual	Manual	Third Owner	15	1586	104.68	5
Hyundai Santro Xing XK eRLX EuroIII	2007	120000	120000	Petrol	Individual	Manual	Second Owner	17.8	1086	63	5
Hyundai Santro Xing XS	2007	120000	120000	Petrol	Individual	Manual	First Owner	17.8	1086	63	5
Maruti Alto LX BSIII	2007	120000	120000	Petrol	Individual	Manual	Second Owner	19.7	796	46.3	5
Maruti Alto LX	2007	110000	120000	Petrol	Individual	Manual	Second Owner	19.7	796	46.3	5
Maruti Alto LXi	2007	110000	120000	Petrol	Individual	Manual	Third Owner	19.7	796	46.3	5
Maruti Alto LXi	2007	85000	120000	Petrol	Individual	Manual	Third Owner	19.7	796	46.3	5
Hyundai Accent GLE	2007	80000	120000	Petrol	Individual	Manual	Second Owner	13.2	1495	94	5
Tata New Safari 4X2	2007	300000	110000	Petrol	Individual	Manual	Second Owner	12	2092	127	7

Insight No 4

To find the all details of the table in the year 2007 and selling price greater than 10000

```
select * from cars24

where year = 2010 and selling_price >10000;
```



```
10 •  select * from cars24
11    where year = 2010 and selling_price >10000
12
```

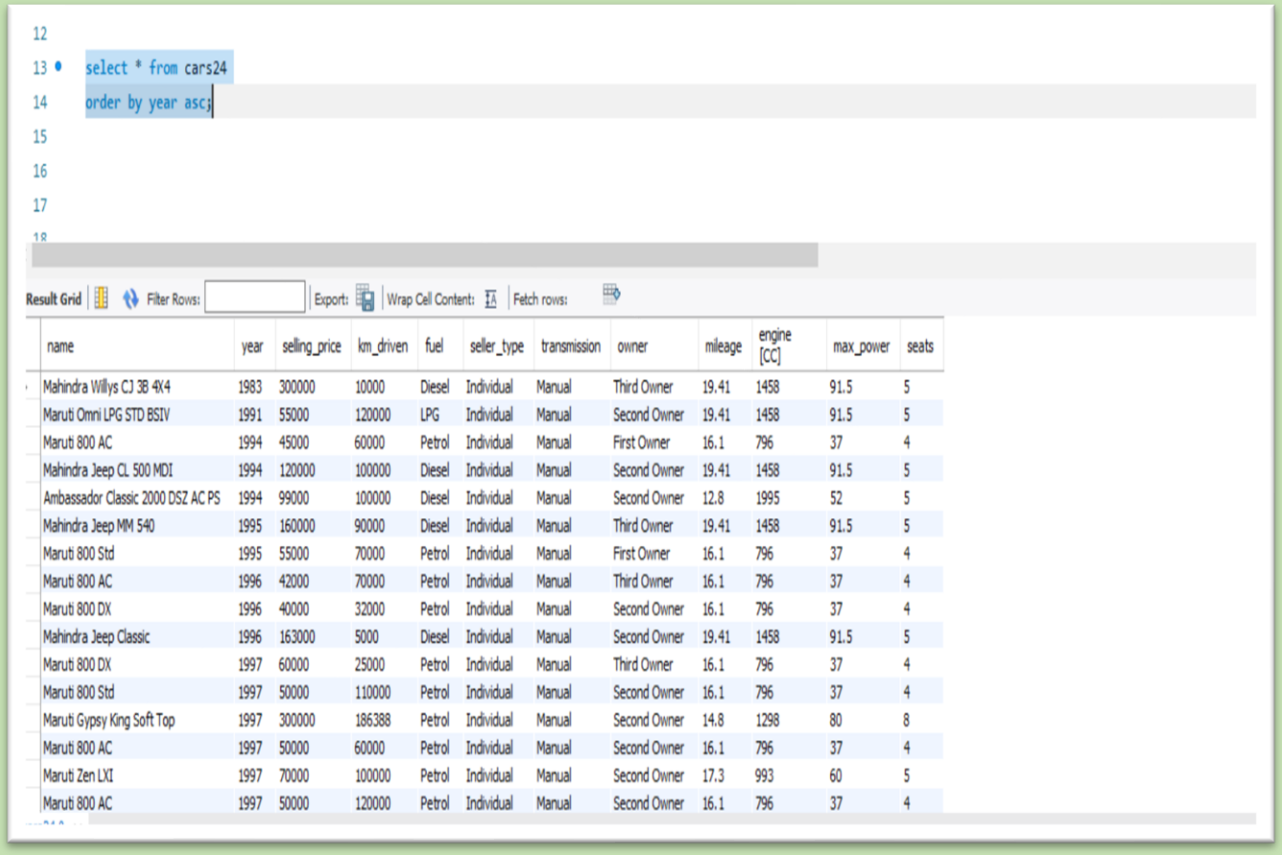
esult Grid | Filter Rows: | Export: | Wrap Cell Content:

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Maruti Zen Estilo Sports	2010	150000	39000	Petrol	Individual	Manual	First Owner	16.9	1061	64.9	5
Maruti Alto LXi	2010	160000	36659	Petrol	Individual	Manual	First Owner	19.7	796	46.3	5
Mercedes-Benz E-Class E 250 ...	2010	1200000	35000	Petrol	Individual	Automatic	Second Owner	10.93	2497	204	5
Maruti Wagon R VXI	2010	200000	35000	Petrol	Dealer	Manual	First Owner	18.9	998	67.1	5
Maruti Wagon R VXI	2010	200000	35000	Petrol	Dealer	Manual	First Owner	18.9	998	67.1	5
Maruti Zen Estilo LX BSIV	2010	200000	35000	Petrol	Individual	Manual	First Owner	19	998	67.1	5
Maruti Alto LXi	2010	190000	35000	Petrol	Individual	Manual	First Owner	19.7	796	46.3	5
Tata Nano Lx BSIV	2010	45000	30400	Petrol	Individual	Manual	Fourth & Abo...	26	624	35	4
Ford Figo Petrol EXI	2010	400000	30000	Petrol	Individual	Manual	First Owner	15.6	1196	70	5
Maruti SX4 ZXI AT Leather	2010	350000	30000	Petrol	Individual	Automatic	First Owner	12.6	1586	103.2	5
Maruti Alto LXi	2010	165000	30000	Petrol	Individual	Manual	Third Owner	19.7	796	46.3	5
Tata Indica Vista Aura 1.2 Safi...	2010	150000	29000	Petrol	Individual	Manual	First Owner	16.5	1172	65	5
Maruti Alto LXi	2010	130000	28000	Petrol	Individual	Manual	Second Owner	19.7	796	46.3	5
Maruti Estilo LXI	2010	200000	27000	Petrol	Individual	Manual	First Owner	19.41	1458	91.5	5
Tata Nano Lx BSIV	2010	65000	26432	Petrol	Dealer	Manual	First Owner	25.4	624	37.48	4
Honda City 1.5 V AT	2010	800000	25000	Petrol	Individual	Automatic	First Owner	16.8	1497	118	5

Insight No 5

To find the all details of the table and order them in ascending order of the year

```
select * from cars24
order by year asc;
```



```
12
13 • select * from cars24
14   order by year asc;
15
16
17
18
```

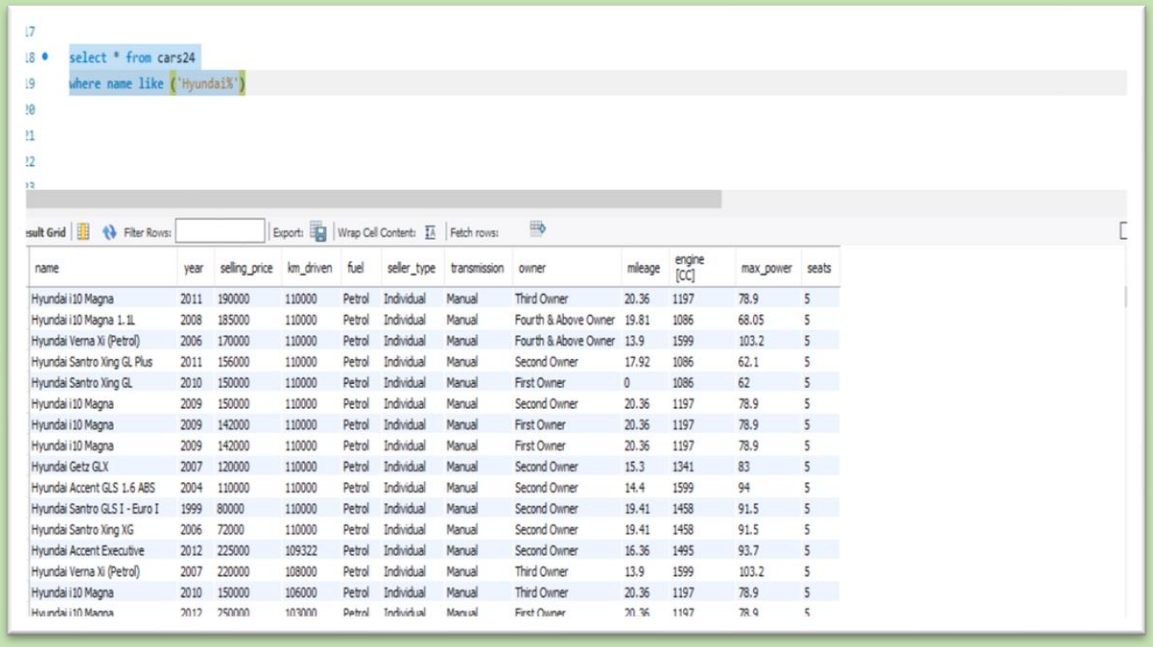
Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Mahindra Willys CJ 3B 4X4	1983	300000	10000	Diesel	Individual	Manual	Third Owner	19.41	1458	91.5	5
Maruti Omni LPG STD BSIV	1991	55000	120000	LPG	Individual	Manual	Second Owner	19.41	1458	91.5	5
Maruti 800 AC	1994	45000	60000	Petrol	Individual	Manual	First Owner	16.1	796	37	4
Mahindra Jeep CL 500 MDI	1994	120000	100000	Diesel	Individual	Manual	Second Owner	19.41	1458	91.5	5
Ambassador Classic 2000 DSZ AC PS	1994	99000	100000	Diesel	Individual	Manual	Second Owner	12.8	1995	52	5
Mahindra Jeep MM 540	1995	160000	90000	Diesel	Individual	Manual	Third Owner	19.41	1458	91.5	5
Maruti 800 Std	1995	55000	70000	Petrol	Individual	Manual	First Owner	16.1	796	37	4
Maruti 800 AC	1996	42000	70000	Petrol	Individual	Manual	Third Owner	16.1	796	37	4
Maruti 800 DX	1996	40000	32000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4
Mahindra Jeep Classic	1996	163000	5000	Diesel	Individual	Manual	Second Owner	19.41	1458	91.5	5
Maruti 800 DX	1997	60000	25000	Petrol	Individual	Manual	Third Owner	16.1	796	37	4
Maruti 800 Std	1997	50000	110000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4
Maruti Gypsy King Soft Top	1997	300000	186388	Petrol	Individual	Manual	Second Owner	14.8	1298	80	8
Maruti 800 AC	1997	50000	60000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4
Maruti Zen LXI	1997	70000	100000	Petrol	Individual	Manual	Second Owner	17.3	993	60	5
Maruti 800 AC	1997	50000	120000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4

Insight No 6

To find the details of the table that starts with the name Hyundai

```
select * from cars24
where name like ('Hyundai%');
```



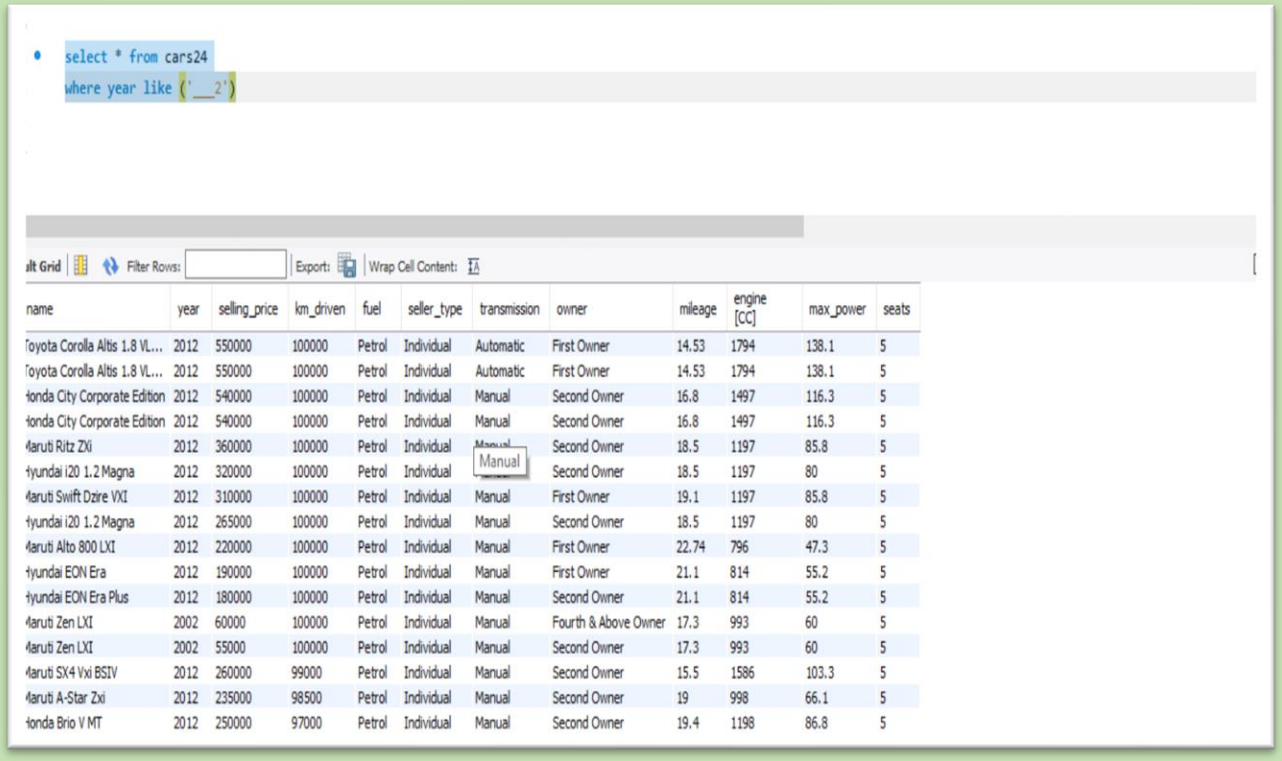
```
select * from cars24
where name like ('Hyundai%')
```

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Hyundai i10 Magna	2011	190000	110000	Petrol	Individual	Manual	Third Owner	20.36	1197	78.9	5
Hyundai i10 Magna 1.1L	2008	185000	110000	Petrol	Individual	Manual	Fourth & Above Owner	19.81	1086	68.05	5
Hyundai Verna Xi (Petrol)	2006	170000	110000	Petrol	Individual	Manual	Fourth & Above Owner	13.9	1599	103.2	5
Hyundai Santro Xing GL Plus	2011	156000	110000	Petrol	Individual	Manual	Second Owner	17.92	1086	62.1	5
Hyundai Santro Xing GL	2010	150000	110000	Petrol	Individual	Manual	First Owner	0	1086	62	5
Hyundai i10 Magna	2009	150000	110000	Petrol	Individual	Manual	Second Owner	20.36	1197	78.9	5
Hyundai i10 Magna	2009	142000	110000	Petrol	Individual	Manual	First Owner	20.36	1197	78.9	5
Hyundai i10 Magna	2009	142000	110000	Petrol	Individual	Manual	First Owner	20.36	1197	78.9	5
Hyundai Getz GLX	2007	120000	110000	Petrol	Individual	Manual	Second Owner	15.3	1341	83	5
Hyundai Accent GLS 1.6 ABS	2004	110000	110000	Petrol	Individual	Manual	Second Owner	14.4	1599	94	5
Hyundai Santro GLS I - Euro I	1999	80000	110000	Petrol	Individual	Manual	Second Owner	19.41	1458	91.5	5
Hyundai Santro Xing XG	2006	72000	110000	Petrol	Individual	Manual	Second Owner	19.41	1458	91.5	5
Hyundai Accent Executive	2012	225000	109322	Petrol	Individual	Manual	Second Owner	16.36	1495	93.7	5
Hyundai Verna Xi (Petrol)	2007	220000	108000	Petrol	Individual	Manual	Third Owner	13.9	1599	103.2	5
Hyundai i10 Magna	2010	150000	106000	Petrol	Individual	Manual	Third Owner	20.36	1197	78.9	5

Insight No 7

To find the details of the table where the year ends with number 2

```
select * from cars24
where year like ('___2');
```



```
select * from cars24
where year like ('___2')
```

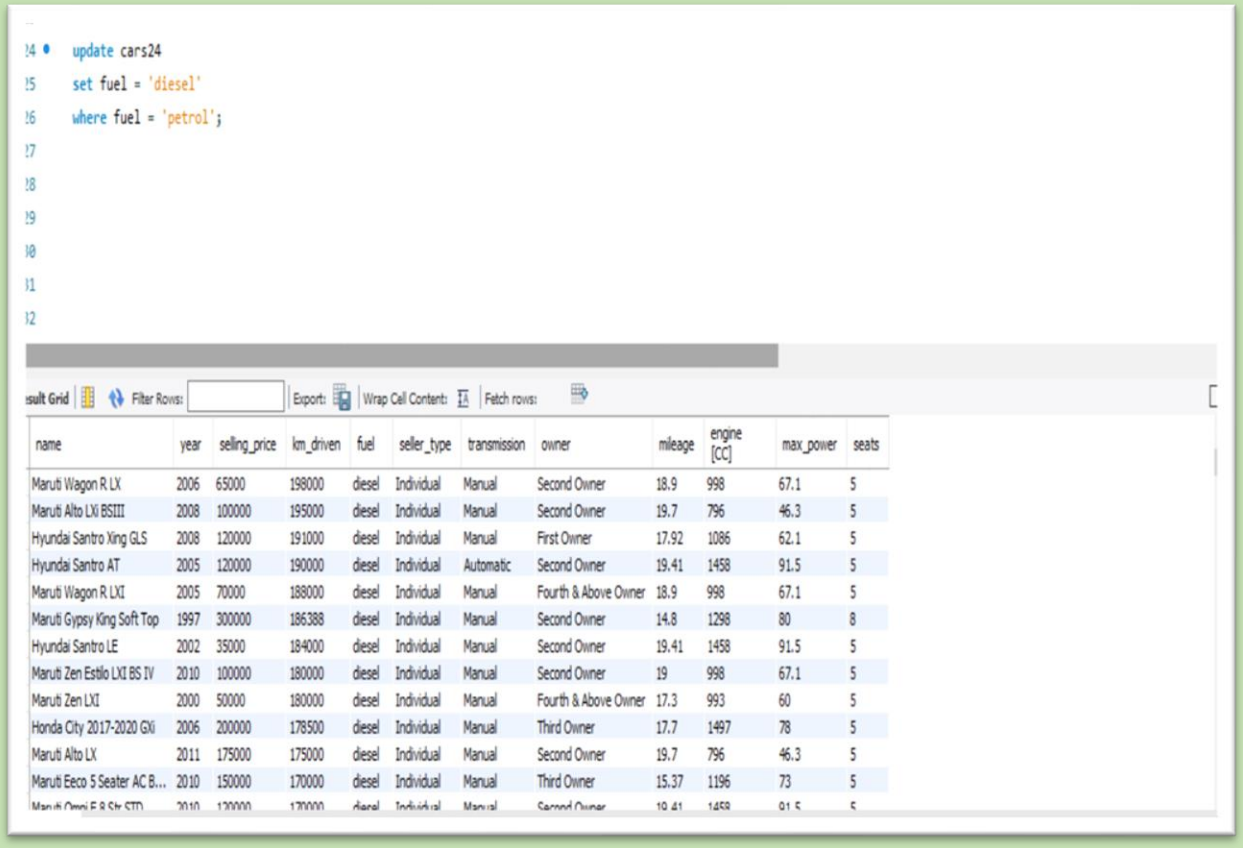
Filter Rows: | Export: | Wrap Cell Content:

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Toyota Corolla Altis 1.8 VL...	2012	550000	100000	Petrol	Individual	Automatic	First Owner	14.53	1794	138.1	5
Toyota Corolla Altis 1.8 VL...	2012	550000	100000	Petrol	Individual	Automatic	First Owner	14.53	1794	138.1	5
Honda City Corporate Edition	2012	540000	100000	Petrol	Individual	Manual	Second Owner	16.8	1497	116.3	5
Honda City Corporate Edition	2012	540000	100000	Petrol	Individual	Manual	Second Owner	16.8	1497	116.3	5
Maruti Ritz ZXi	2012	360000	100000	Petrol	Individual	Manual	Second Owner	18.5	1197	85.8	5
Hyundai i20 1.2 Magna	2012	320000	100000	Petrol	Individual	Manual	Second Owner	18.5	1197	80	5
Maruti Swift Dzire VXI	2012	310000	100000	Petrol	Individual	Manual	First Owner	19.1	1197	85.8	5
Hyundai i20 1.2 Magna	2012	265000	100000	Petrol	Individual	Manual	Second Owner	18.5	1197	80	5
Maruti Alto 800 LXI	2012	220000	100000	Petrol	Individual	Manual	First Owner	22.74	796	47.3	5
Hyundai EON Era	2012	190000	100000	Petrol	Individual	Manual	First Owner	21.1	814	55.2	5
Hyundai EON Era Plus	2012	180000	100000	Petrol	Individual	Manual	Second Owner	21.1	814	55.2	5
Maruti Zen LXI	2002	60000	100000	Petrol	Individual	Manual	Fourth & Above Owner	17.3	993	60	5
Maruti Zen LXI	2002	55000	100000	Petrol	Individual	Manual	Second Owner	17.3	993	60	5
Maruti SX4 Vxi BSIV	2012	260000	99000	Petrol	Individual	Manual	Second Owner	15.5	1586	103.3	5
Maruti A-Star Zxi	2012	235000	98500	Petrol	Individual	Manual	Second Owner	19	998	66.1	5
Honda Brio V MT	2012	250000	97000	Petrol	Individual	Manual	Second Owner	19.4	1198	86.8	5

Insight No 8

To update the details of the table by changing diesel in the place of petrol

```
update cars24
set fuel = 'diesel'
where fuel = 'petrol';
```



```
update cars24
set fuel = 'diesel'
where fuel = 'petrol';
```

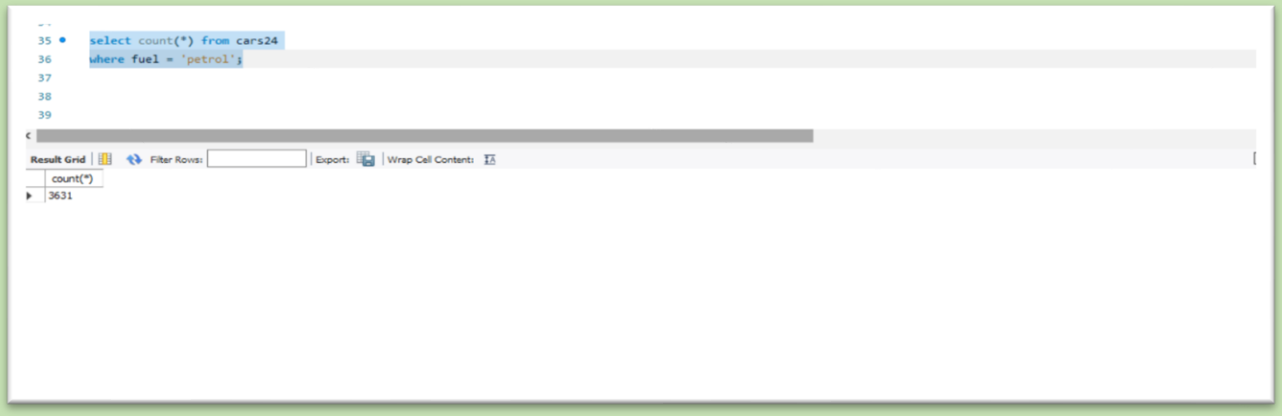
sult Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Maruti Wagon R LX	2006	65000	198000	diesel	Individual	Manual	Second Owner	18.9	998	67.1	5
Maruti Alto LXi BSIII	2008	100000	195000	diesel	Individual	Manual	Second Owner	19.7	796	46.3	5
Hyundai Santro Xing GLS	2008	120000	191000	diesel	Individual	Manual	First Owner	17.92	1086	62.1	5
Hyundai Santro AT	2005	120000	190000	diesel	Individual	Automatic	Second Owner	19.41	1458	91.5	5
Maruti Wagon R LXI	2005	70000	188000	diesel	Individual	Manual	Fourth & Above Owner	18.9	998	67.1	5
Maruti Gypsy King Soft Top	1997	300000	186388	diesel	Individual	Manual	Second Owner	14.8	1298	80	8
Hyundai Santro LE	2002	35000	184000	diesel	Individual	Manual	Second Owner	19.41	1458	91.5	5
Maruti Zen Estilo LXI BS IV	2010	100000	180000	diesel	Individual	Manual	Second Owner	19	998	67.1	5
Maruti Zen LXI	2000	50000	180000	diesel	Individual	Manual	Fourth & Above Owner	17.3	993	60	5
Honda City 2017-2020 GXi	2006	200000	178500	diesel	Individual	Manual	Third Owner	17.7	1497	78	5
Maruti Alto LX	2011	175000	175000	diesel	Individual	Manual	Second Owner	19.7	796	46.3	5
Maruti Eeco 5 Seater AC B...	2010	150000	170000	diesel	Individual	Manual	Third Owner	15.37	1196	73	5

Insight No 9

To count the total no of petrol using cars from the table

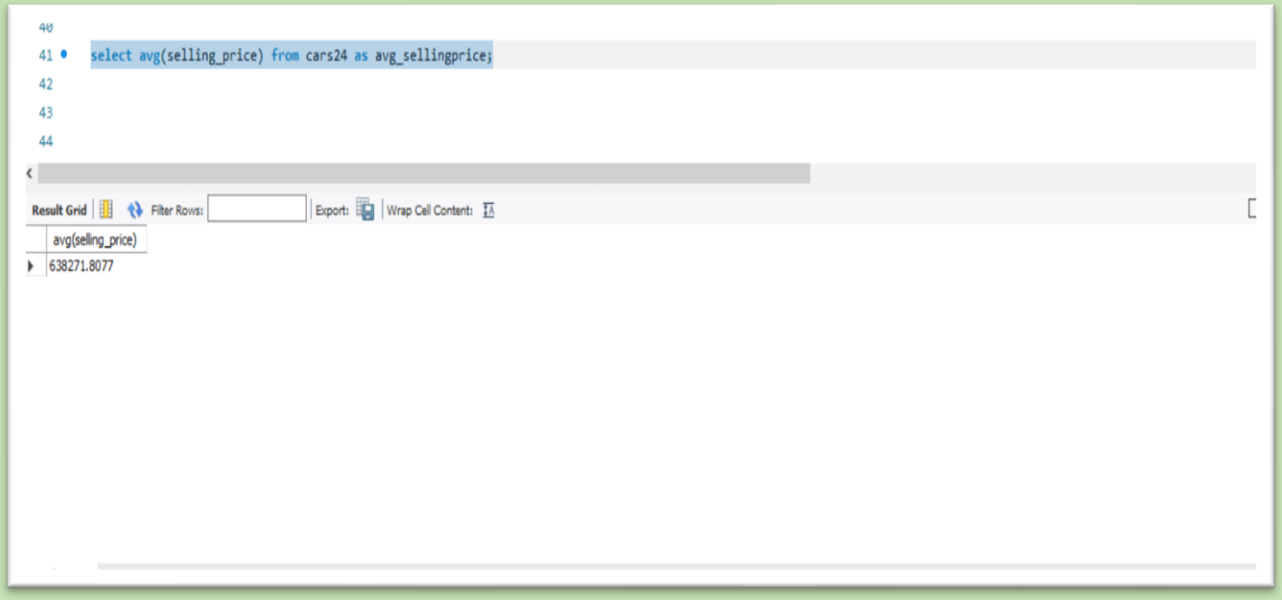
```
select count(*) from cars24
where fuel = 'petrol';
```



Insight No 10

To find the average selling price

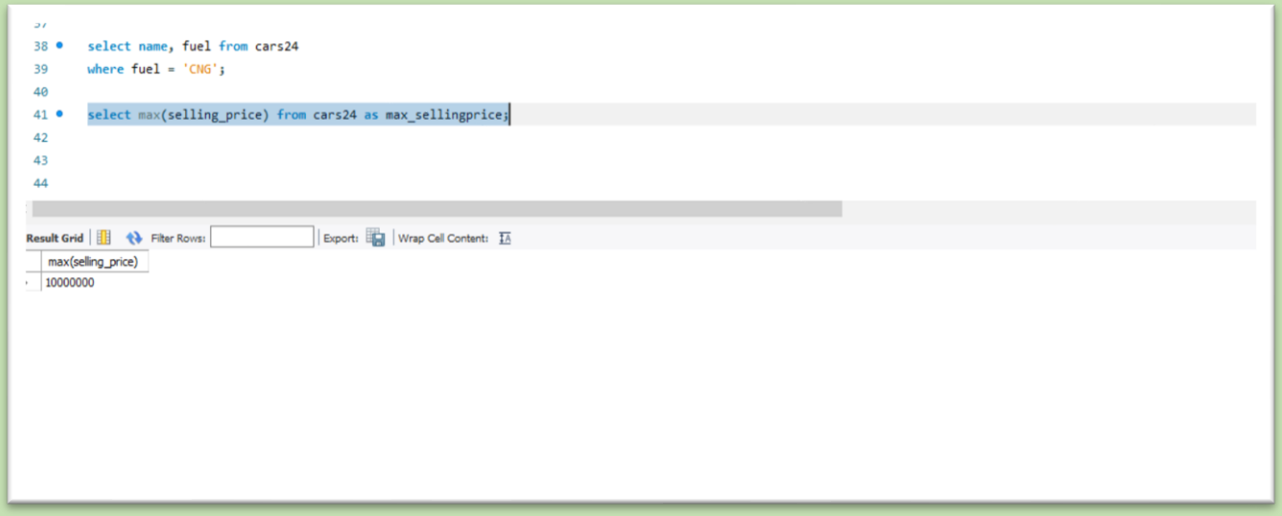
```
Select avg(selling_price) from cars24 as avg_sellingprice;
```



Insight No 11

To find the maximum selling price

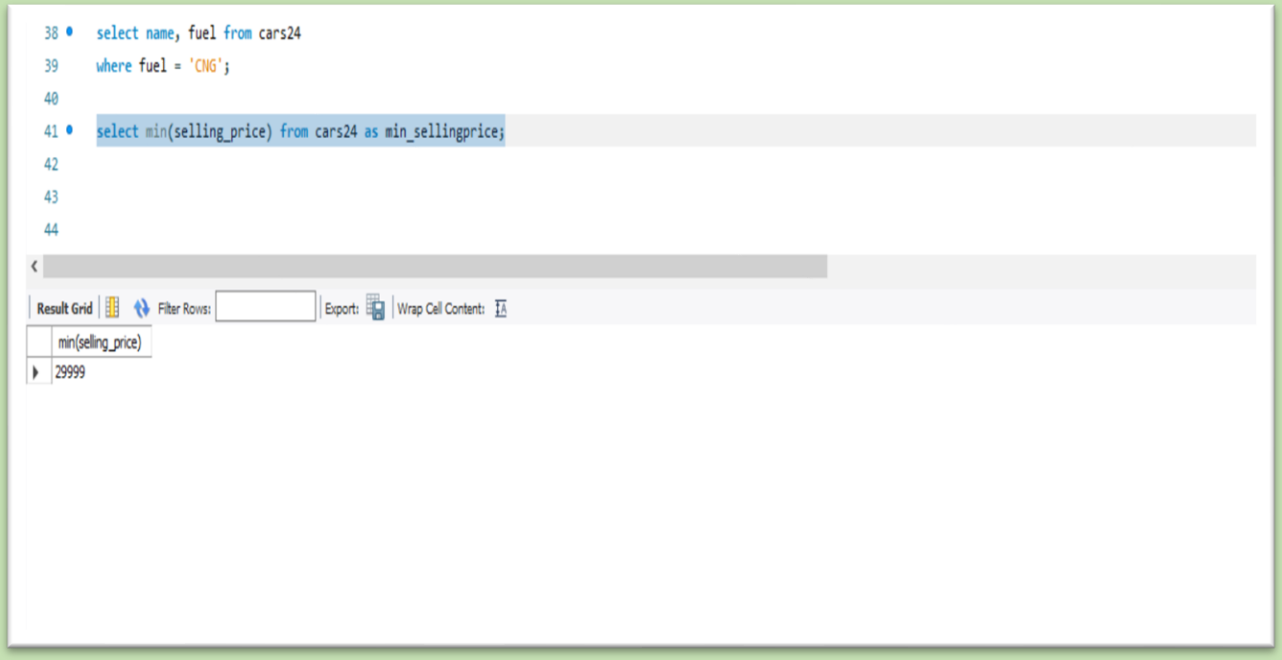
Select max(selling_price) from cars24 as max_sellingprice;



Insight No 12

To find the minimum selling price

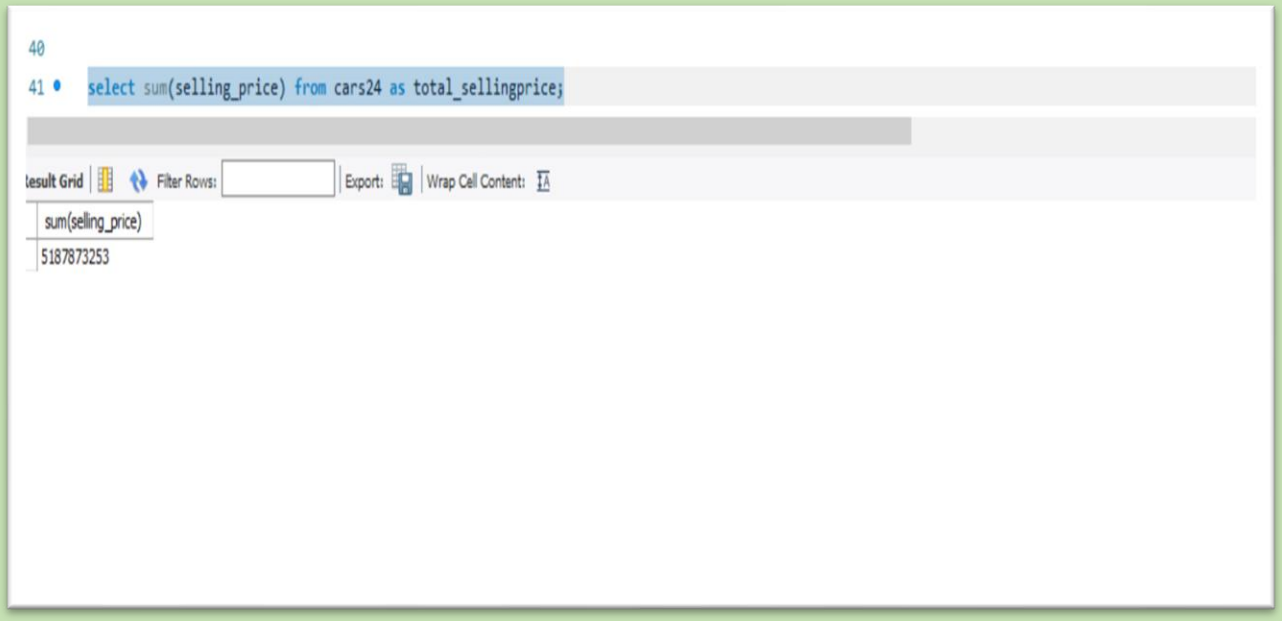
Select min(selling_price) from cars24 as min_sellingprice;



Insight No 13

To find the total selling price

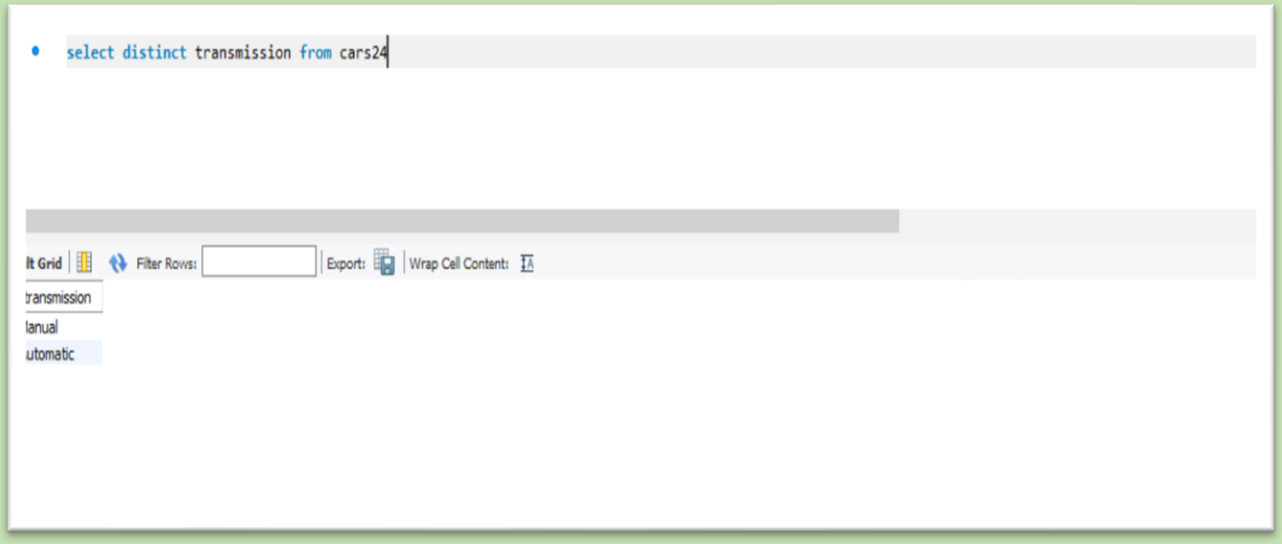
Select sum(selling_price) from cars24 as total_sellingprice;



Insight No 14

To find the unique type of transmission

```
select distinct transmission from cars24;
```



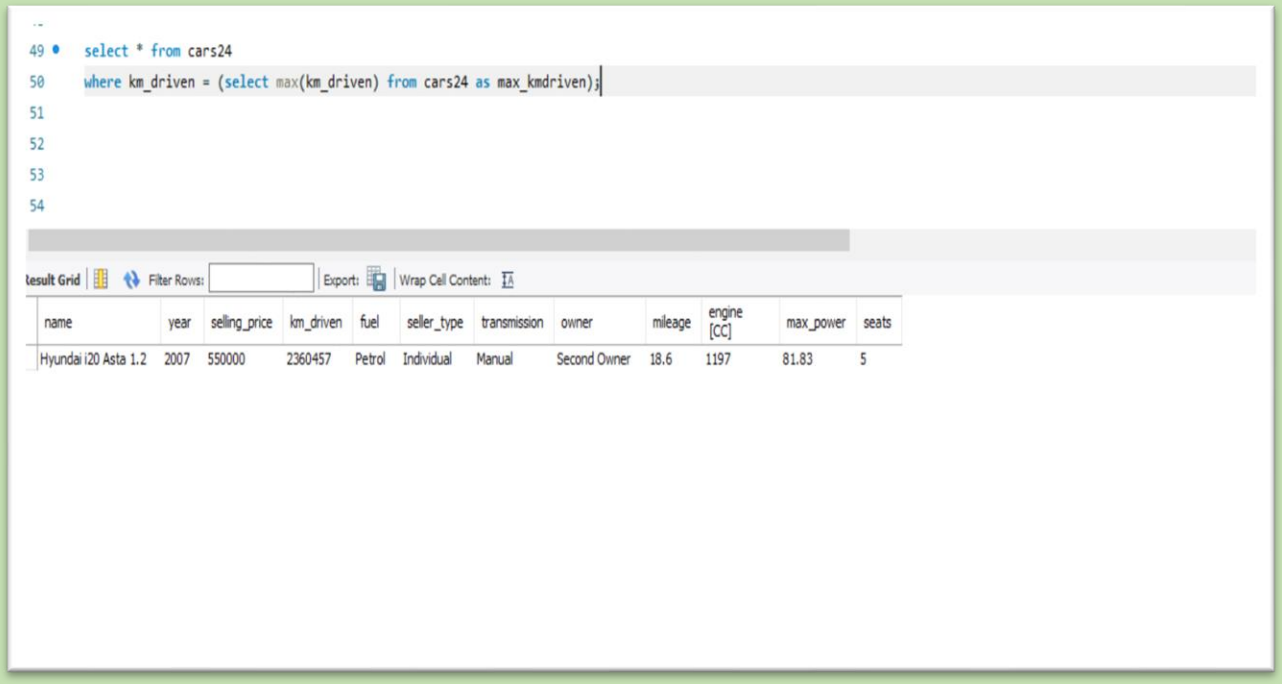
Insight No 15

To find the max kilometer driven

```
select max(km_driven) from cars24 as max_kmdriven;

select * from cars24

where km_driven = (select max(km_driven) from cars24 as max_kmdriven);
```



```
49 •  select * from cars24
50    where km_driven = (select max(km_driven) from cars24 as max_kmdriven);
51
52
53
54
```

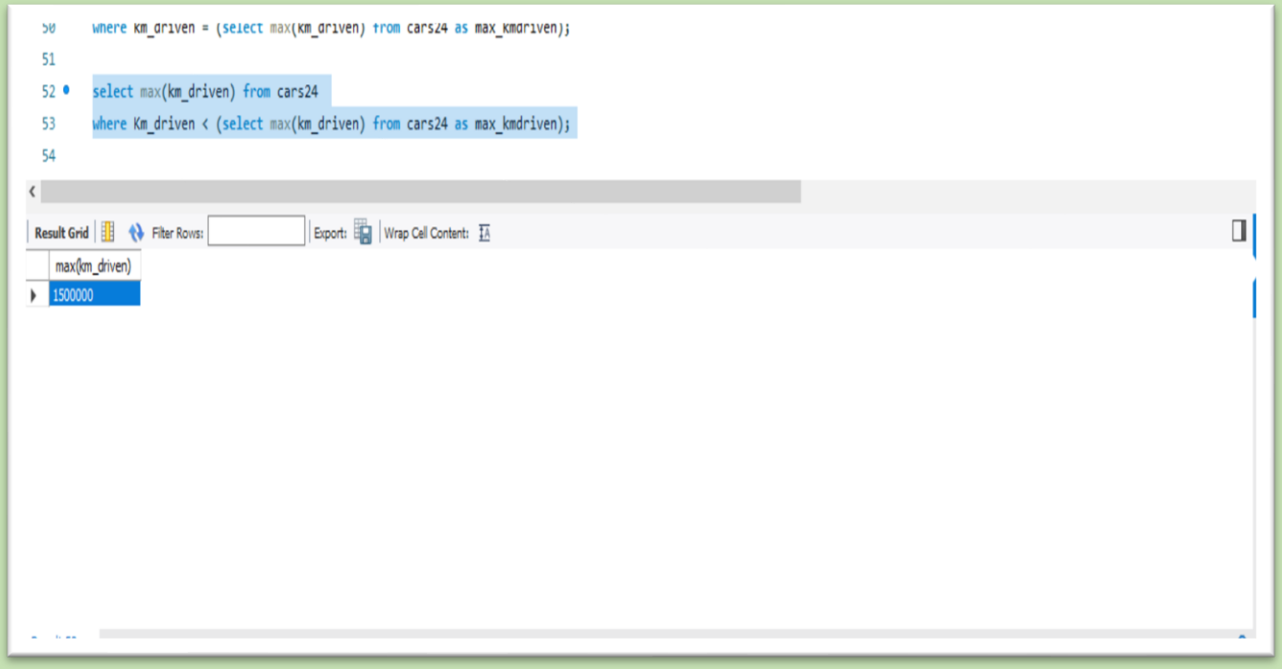
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Hyundai i20 Asta 1.2	2007	550000	2360457	Petrol	Individual	Manual	Second Owner	18.6	1197	81.83	5

Insight No 16

To find the next max kilometer driven

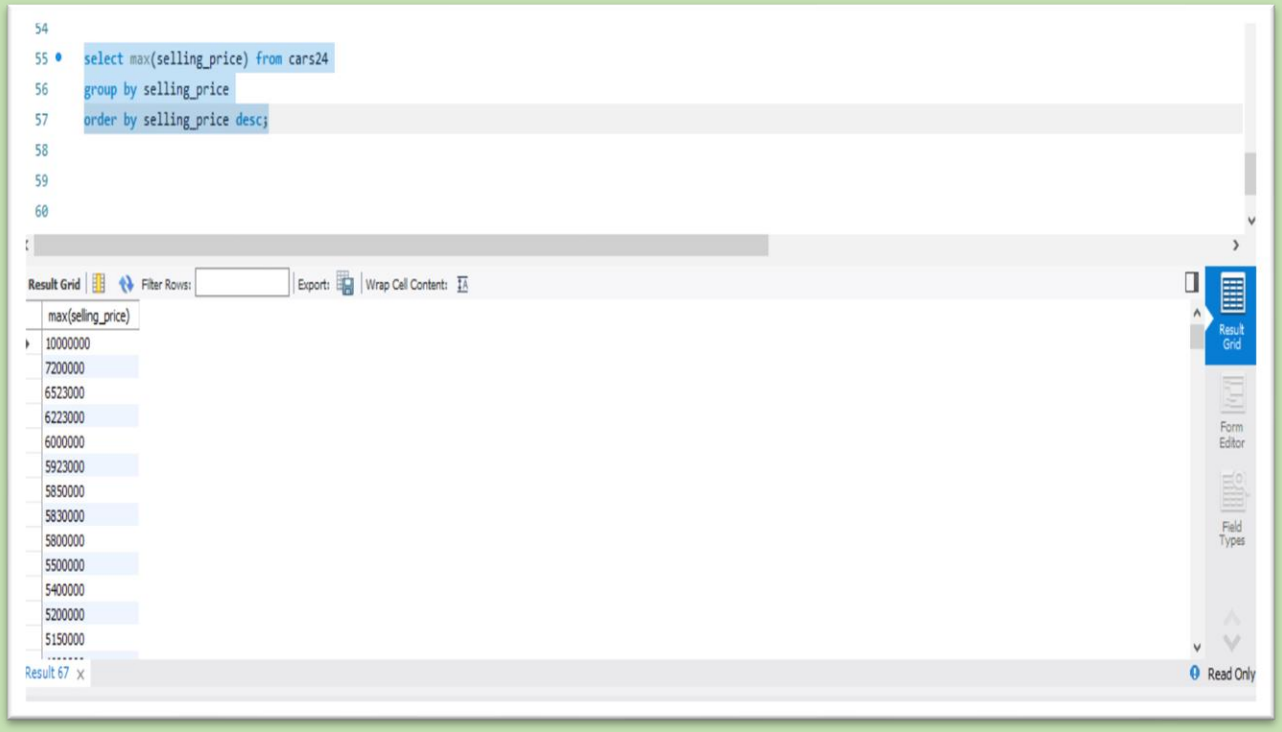
```
select max(km_driven) from cars24
where Km_driven < (select max(km_driven) from cars24 as max_kmdriven);
```



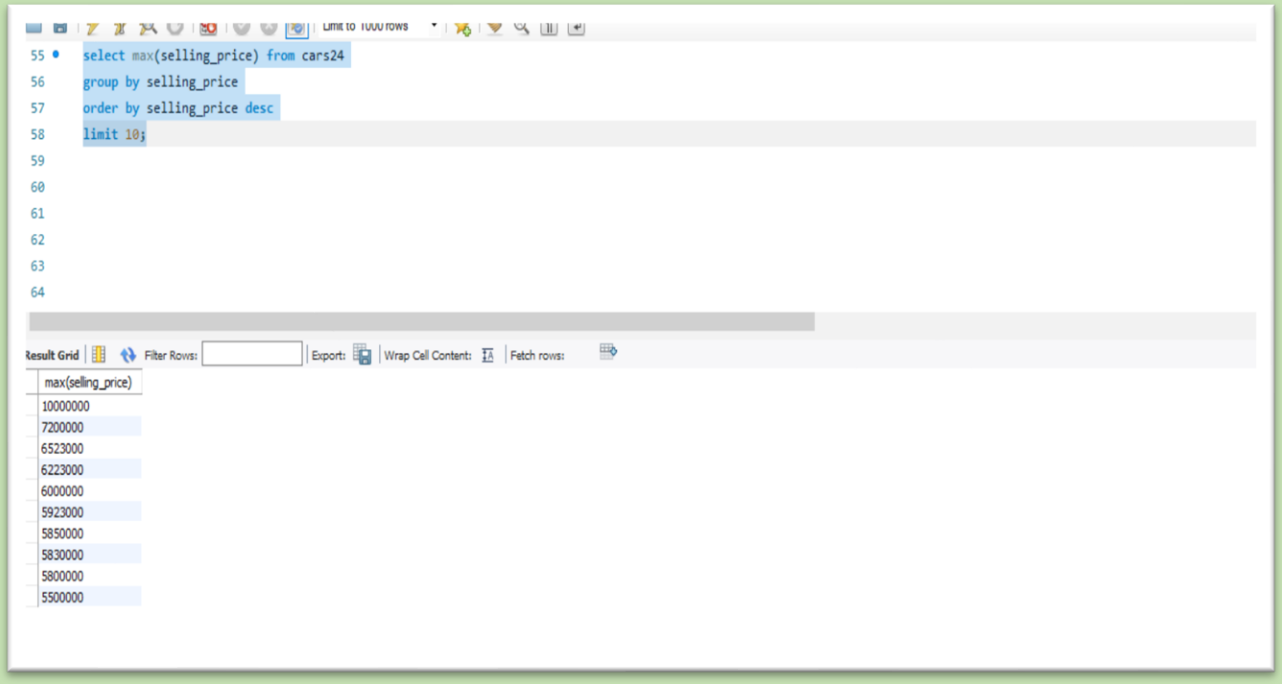
Insight No 17

To find the max selling price , group by selling price , order by descending.

```
select max(selling_price) from cars24
group by selling_price
order by selling_price desc
```



Insight No 18

To find the first 10 max selling price , group by selling price , order by descending.

```
select max(selling_price) from cars24
group by selling_price
order by selling_price desc
limit 10;
```