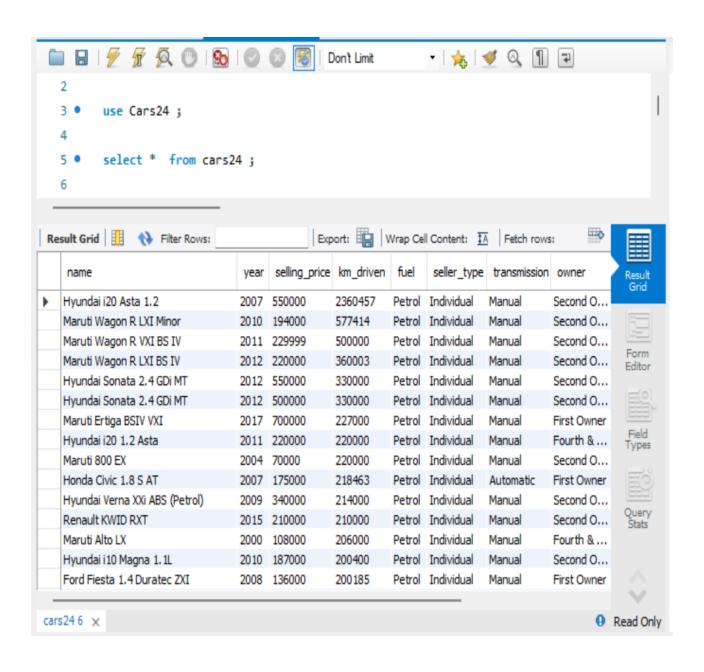# Data Analytics SQL Mini-Project

BY : SAURABH KUMAR

Insight number 1

- -- Reading the whole table

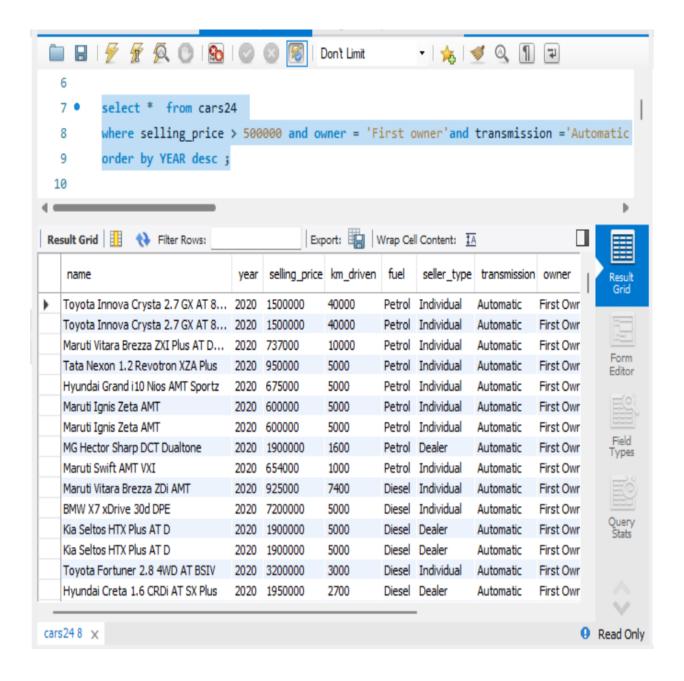   select * from cars24
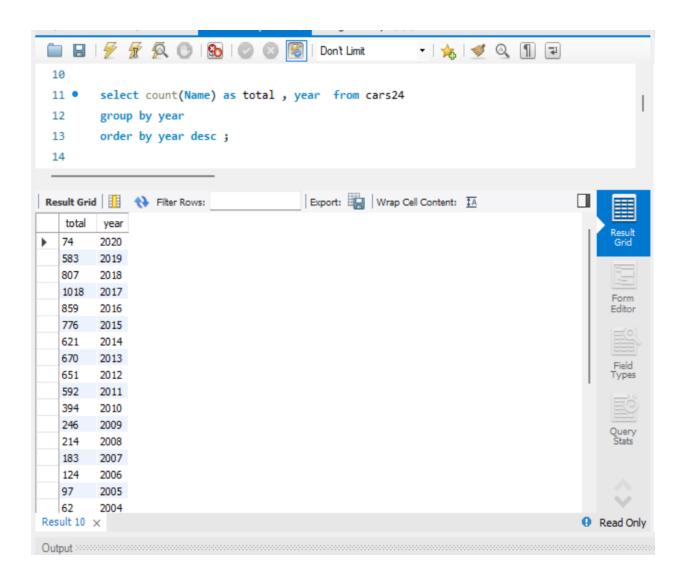
Insight number 2

   --- Get the details of car whose selling price is greater than 5lakh , owner is first and automatic.

select *   from cars24

where selling_price > 500000 and owner = 'First owner'and transmission ='Automatic'

order by YEAR desc ;

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner
Toyota Innova Crysta 2.7 GX AT 8...	2020	1500000	40000	Petrol	Individual	Automatic	First Owr
Toyota Innova Crysta 2.7 GX AT 8...	2020	1500000	40000	Petrol	Individual	Automatic	First Owr
Maruti Vitara Brezza ZXI Plus AT D...	2020	737000	10000	Petrol	Individual	Automatic	First Owr
Tata Nexon 1.2 Revotron XZA Plus	2020	950000	5000	Petrol	Individual	Automatic	First Owr
Hyundai Grand i10 Nios AMT Sportz	2020	675000	5000	Petrol	Individual	Automatic	First Owr
Maruti Ignis Zeta AMT	2020	600000	5000	Petrol	Individual	Automatic	First Owr
Maruti Ignis Zeta AMT	2020	600000	5000	Petrol	Individual	Automatic	First Owr
MG Hector Sharp DCT Dualtone	2020	1900000	1600	Petrol	Dealer	Automatic	First Owr
Maruti Swift AMT VXI	2020	654000	1000	Petrol	Individual	Automatic	First Owr
Maruti Vitara Brezza ZDi AMT	2020	925000	7400	Diesel	Individual	Automatic	First Owr
BMW X7 xDrive 30d DPE	2020	7200000	5000	Diesel	Individual	Automatic	First Owr
Kia Seltos HTX Plus AT D	2020	1900000	5000	Diesel	Dealer	Automatic	First Owr
Kia Seltos HTX Plus AT D	2020	1900000	5000	Diesel	Dealer	Automatic	First Owr
Toyota Fortuner 2.8 4WD AT BSIV	2020	3200000	3000	Diesel	Individual	Automatic	First Owr
Hyundai Creta 1.6 CRDi AT SX Plus	2020	1950000	2700	Diesel	Dealer	Automatic	First Owr

cars24 8 ✕

Insight number 3
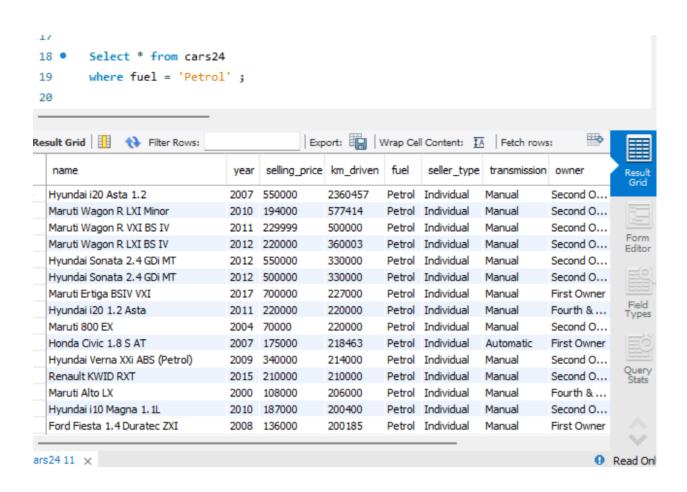
--- Count the number of cars in stocks by their year

select count(Name) as total , year   from cars24

group by year

order by year desc ;

```
10
11 ●    select count(Name) as total , year  from cars24
12        group by year
13        order by year desc ;
14
```

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

total	year
74	2020
583	2019
807	2018
1018	2017
859	2016
776	2015
621	2014
670	2013
651	2012
592	2011
394	2010
246	2009
214	2008
183	2007
124	2006
97	2005
62	2004

Result 10 ✕

Result Grid

Form Editor

Field Types

Query Stats

❶ Read Only

Output

insight number 4

--- count the number of cars whose fuel type is Petrol .

Select * from cars24

where fuel = 'Petrol' ;

```
17
18 •    Select * from cars24
19        where fuel = 'Petrol' ;
20
```

Result Grid | 🔲 🔁 Filter Rows: [_____] | Export: 📥 | Wrap Cell Content: 🅰 | Fetch rows: 📑

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner
Hyundai i20 Asta 1.2	2007	550000	2360457	Petrol	Individual	Manual	Second O...
Maruti Wagon R LXI Minor	2010	194000	577414	Petrol	Individual	Manual	Second O...
Maruti Wagon R VXI BS IV	2011	229999	500000	Petrol	Individual	Manual	Second O...
Maruti Wagon R LXI BS IV	2012	220000	360003	Petrol	Individual	Manual	Second O...
Hyundai Sonata 2.4 GDi MT	2012	550000	330000	Petrol	Individual	Manual	Second O...
Hyundai Sonata 2.4 GDi MT	2012	500000	330000	Petrol	Individual	Manual	Second O...
Maruti Ertiga BSIV VXI	2017	700000	227000	Petrol	Individual	Manual	First Owner
Hyundai i20 1.2 Asta	2011	220000	220000	Petrol	Individual	Manual	Fourth & ...
Maruti 800 EX	2004	70000	220000	Petrol	Individual	Manual	Second O...
Honda Civic 1.8 S AT	2007	175000	218463	Petrol	Individual	Automatic	First Owner
Hyundai Verna XXi ABS (Petrol)	2009	340000	214000	Petrol	Individual	Manual	Second O...
Renault KWID RXT	2015	210000	210000	Petrol	Individual	Manual	Second O...
Maruti Alto LX	2000	108000	206000	Petrol	Individual	Manual	Fourth & ...
Hyundai i10 Magna 1.1L	2010	187000	200400	Petrol	Individual	Manual	Second O...
Ford Fiesta 1.4 Duratec ZXI	2008	136000	200185	Petrol	Individual	Manual	First Owner

Result Grid | Form Editor | Field Types | Query Stats

ars24 11 ✕   ❶ Read Onl

insight number 5

Select 10 most expensive cars from table ;

*select * from cars24*

order by selling_price desc

limit 10 ;

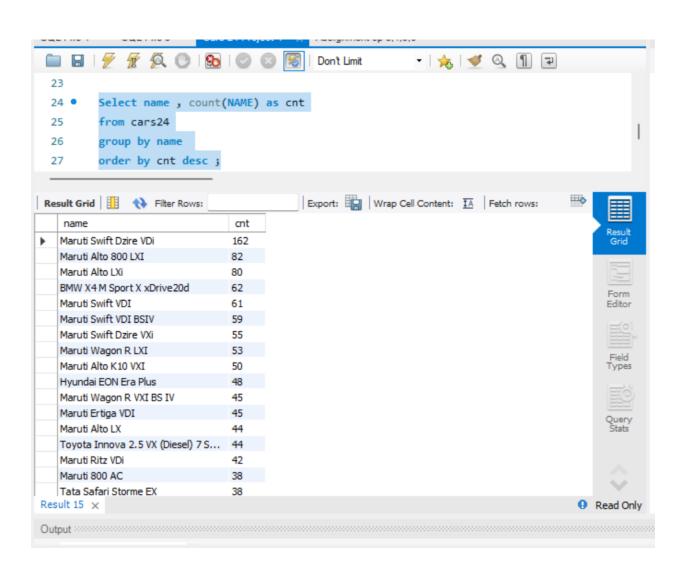| name	year	selling_price	km_driven	fuel	seller_type	transmission	owner
Volvo XC90 T8 Excellence BSIV	2017	10000000	30000	Petrol	Individual	Automatic	First Owner
BMW X7 xDrive 30d DPE	2020	7200000	5000	Diesel	Individual	Automatic	First Owner
Audi A6 35 TFSI Matrix	2019	6523000	23600	Petrol	Dealer	Automatic	Test Driv...
Audi A6 35 TFSI Matrix	2019	6223000	7800	Petrol	Dealer	Automatic	Test Driv...
BMW 6 Series GT 630d Luxury Line	2018	6000000	28156	Diesel	Dealer	Automatic	First Owner
BMW 6 Series GT 630d Luxury Line	2018	6000000	27000	Diesel	Dealer	Automatic	First Owner
Mercedes-Benz S-Class S 350 CDI	2017	6000000	37000	Diesel	Dealer	Automatic	First Owner
Mercedes-Benz S-Class S 350 CDI	2017	6000000	37000	Diesel	Dealer	Automatic	First Owner
Mercedes-Benz S-Class S 350 CDI	2017	6000000	37000	Diesel	Dealer	Automatic	First Owner
BMW 6 Series GT 630d Luxury Line	2018	6000000	28156	Diesel	Dealer	Automatic	First Owner

insight number 6

Select the number of cars by their Model name and order them in max to min.
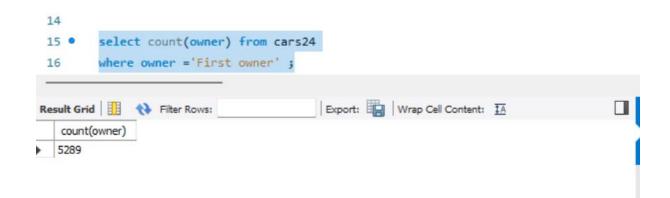
Select name , count(NAME) as cnt
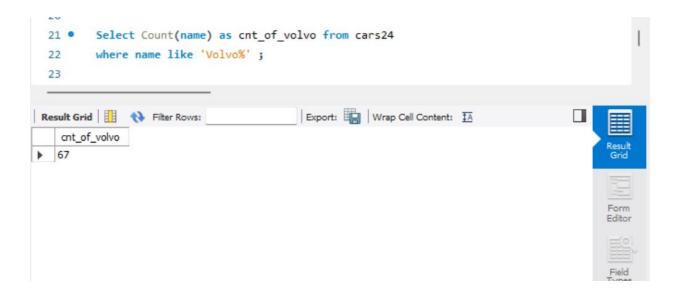
from cars24

group by name

order by cnt desc ;

insight number 7

--- Get the number of total cars whose owner is first ;

select count(owner) from cars24

where owner ='First owner' ;

```
14
15 •    select count(owner) from cars24
16      where owner ='First owner' ;
```

Result Grid | ⬛ | ↪ Filter Rows: | Export: 🖼 | Wrap Cell Content: IA | ☐

count(owner)
5289

insight number 8

--- Get the number of total cars of Volvo ;

Select Count(name) as cnt_of_volvo from cars24

where name like 'Volvo%' ;

```
21 •    Select Count(name) as cnt_of_volvo from cars24
22      where name like 'Volvo%' ;
23
```

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

cnt_of_volvo
67

Result Grid

Form Editor

Field Types

insight number 9
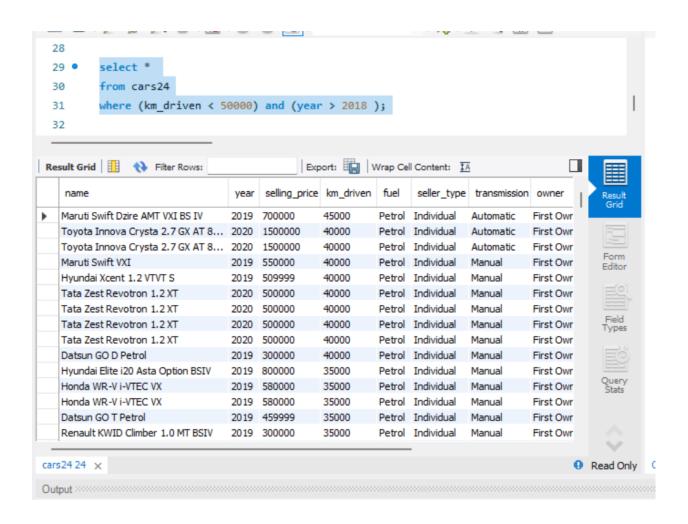
--- Select the number of cars which is driven less than 50000 and year is more than 2018

select *

from cars24

where (km_driven < 50000) and (year > 2018);

```
28
29  •    select *
30       from cars24
31       where (km_driven < 50000) and (year > 2018 );
32
```

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner
Maruti Swift Dzire AMT VXI BS IV	2019	700000	45000	Petrol	Individual	Automatic	First Owr
Toyota Innova Crysta 2.7 GX AT 8...	2020	1500000	40000	Petrol	Individual	Automatic	First Owr
Toyota Innova Crysta 2.7 GX AT 8...	2020	1500000	40000	Petrol	Individual	Automatic	First Owr
Maruti Swift VXI	2019	550000	40000	Petrol	Individual	Manual	First Owr
Hyundai Xcent 1.2 VTVT S	2019	509999	40000	Petrol	Individual	Manual	First Owr
Tata Zest Revotron 1.2 XT	2020	500000	40000	Petrol	Individual	Manual	First Owr
Tata Zest Revotron 1.2 XT	2020	500000	40000	Petrol	Individual	Manual	First Owr
Tata Zest Revotron 1.2 XT	2020	500000	40000	Petrol	Individual	Manual	First Owr
Tata Zest Revotron 1.2 XT	2020	500000	40000	Petrol	Individual	Manual	First Owr
Datsun GO D Petrol	2019	300000	40000	Petrol	Individual	Manual	First Owr
Hyundai Elite i20 Asta Option BSIV	2019	800000	35000	Petrol	Individual	Manual	First Owr
Honda WR-V i-VTEC VX	2019	580000	35000	Petrol	Individual	Manual	First Owr
Honda WR-V i-VTEC VX	2019	580000	35000	Petrol	Individual	Manual	First Owr
Datsun GO T Petrol	2019	459999	35000	Petrol	Individual	Manual	First Owr
Renault KWID Climber 1.0 MT BSIV	2019	300000	35000	Petrol	Individual	Manual	First Owr

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result Grid | Form Editor | Field Types | Query Stats

cars24 24 ✕   ⓘ Read Only

Output

insight number 10

--- Select the name of car which is less driven

select name , min(km_driven) as total_km

from cars24

group by name

order by total_km asc

limit 1 ;

```
36
37 •    select name , min(km_driven) as total_km
38      from cars24
39      group by name
40      order by total_km asc
41      limit 1 ;
42
```

name	total_km
Maruti Eeco 5 STR With AC Plus H...	1

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

insight number 11

--- Select the name of car which is maximum driven

select name,owner, max(km_driven)as km_run

from cars24

group by name , owner

order by   km_run desc

limit 1   ;

```
43
44 •    select name,owner, max(km_driven)as km_run
45      from cars24
46      group by name , owner
47      order by  km_run desc
48      limit 1  ;
49
50
```

Result Grid		Filter Rows:		Export:	Wrap Cell Content:
name	owner	km_run
▶ Hyundai i20 Asta 1.2	Second O...	2360457

Result 4 ✕   🛈 Read Only