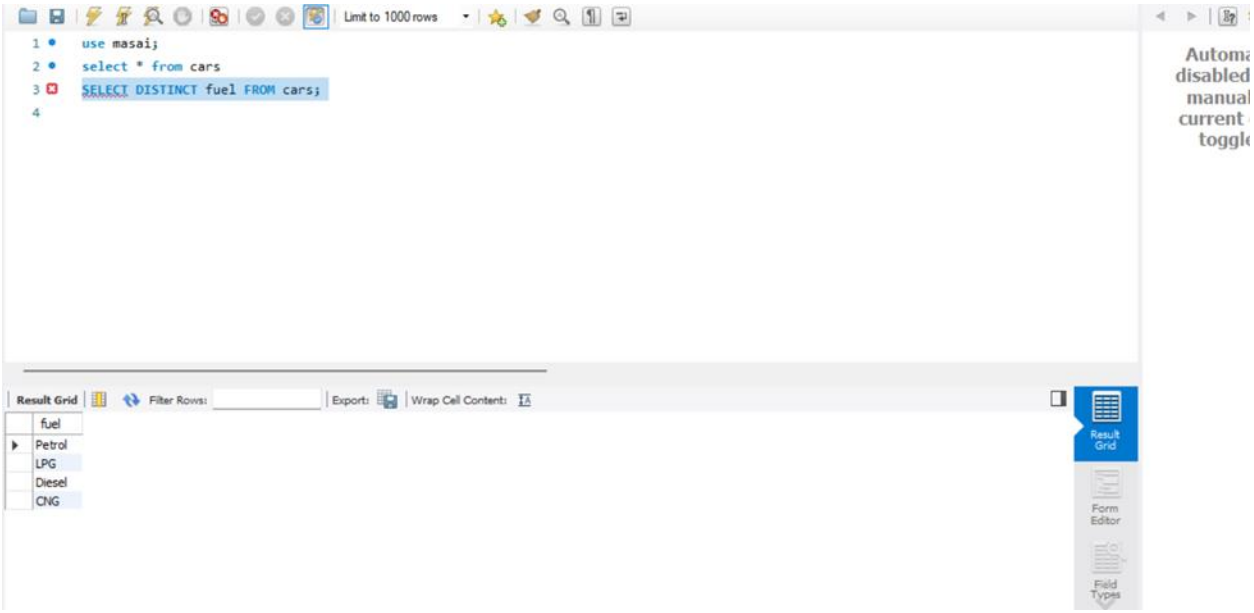
Data Analytics miniSQL Mini-Project

Insight number 1 –fuel types

What are the fuel types present in the table



Insight number 2 –maximum cars sold year

Print name and maximum cars sold in the year .sort the result in descending order on the year?

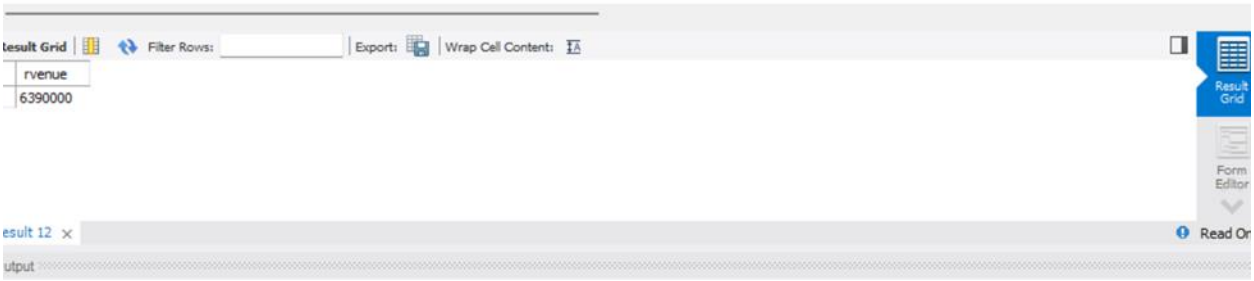
```
4
5 •  select name,max(year)as max_cars from cars
6    group by name,year
7    order by year desc;
8
```

name	max_cars
Maruti Eeco CNG 5 Seater AC BSIV	2020
BMW X7 xDrive 30d DPE	2020
Kia Seltos HTX Plus AT D	2020
Toyota Innova Crysta 2.4 ZX AT	2020
Mahindra Bolero Pik-Up FB 1.7T	2020
Maruti Alto 800 LXI CNG	2020

Insight number 3 –revenue

Find the total revenue by Hyundai i20 Asta 1.2 ?

```
8
9 •  SELECT SUM(selling_price)as rvenue from cars
10   where name like  'Hyundai i20 Asta 1.2' ;
11
```



rvenue
6390000

Insight number 4 –average selling price

Print name,year,km_driven,fuel type and average selling_price from table and sort the result as descending on km_driven by cars ?

```
1
2   SELECT name,year,km_driven,fuel,AVG(selling_price) as avg FROM cars
3   GROUP BY name,year,km_driven,fuel
4   ORDER BY km_driven desc;
5
6
7
8
9
0
1
2
```

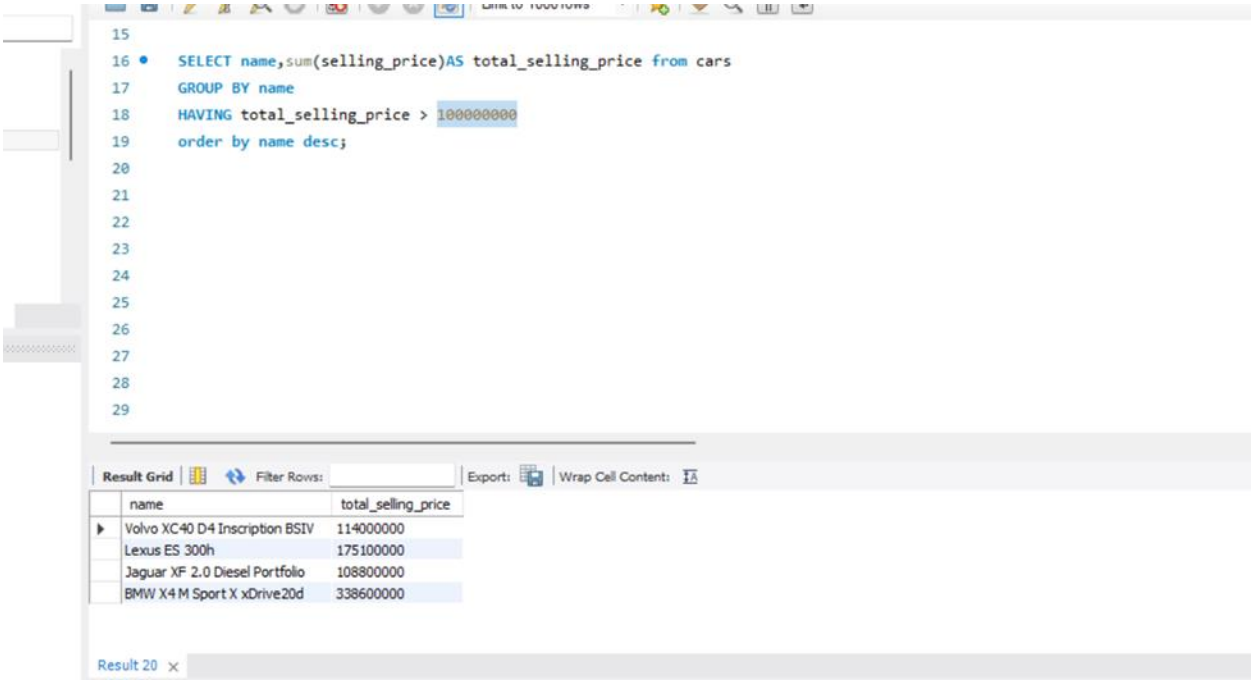
sult Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	year	km_driven	fuel	avg
Hyundai i20 Asta 1.2	2007	2360457	Petrol	550000.0000
Mahindra XUV500 W6 2WD	2012	1500000	Diesel	500000.0000
Maruti Wagon R LXI Minor	2010	577414	Petrol	194000.0000
Maruti Wagon R VXI BS IV	2011	500000	Petrol	229999.0000
Toyota Innova 2.5 EV Diesel PS 7 Seater BSIII	2011	500000	Diesel	350000.0000
Mahindra Scorpio M2DI	2011	475000	Diesel	400000.0000

sult 15

Insight number 5 – greater than 100000000

Print name and total selling price filter to only which have total selling price greater than 100000000 and order by name desc?



Insight number 6 – vowels

List the car names which have vowels as both their first and last name as character and order by name of cars by ascending?

```
21 • select * from cars;
22 • select distinct name from cars
23   WHERE (NAME LIKE 'A%' OR NAME LIKE 'E%' OR NAME LIKE 'I%' OR NAME LIKE 'O%'
24   OR NAME LIKE 'U%') AND
25   (name LIKE '%a' or name like '%e' or name like '%i' or name like '%o' or name like '%u')
26   order by name;
27
28
29
30
```

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

name
Ambassador Grand 1500 DSZ BSIII
Ashok Leyland Stile LE
Audi A4 1.8 TFSI
Audi A4 2.0 TDI
Audi A6 2.0 TDI
Audi Q5 2.0 TDI
Audi Q5 3.0 TDI Quattro
Audi Q7 3.0 TDI Quattro
Isuzu D-Max V-Cross Z Prestige

Insight number 7 –top 5

Get the name transmission type max_power and minimum selling price from cars table and order by its car name ascending and get top 5 cars ?

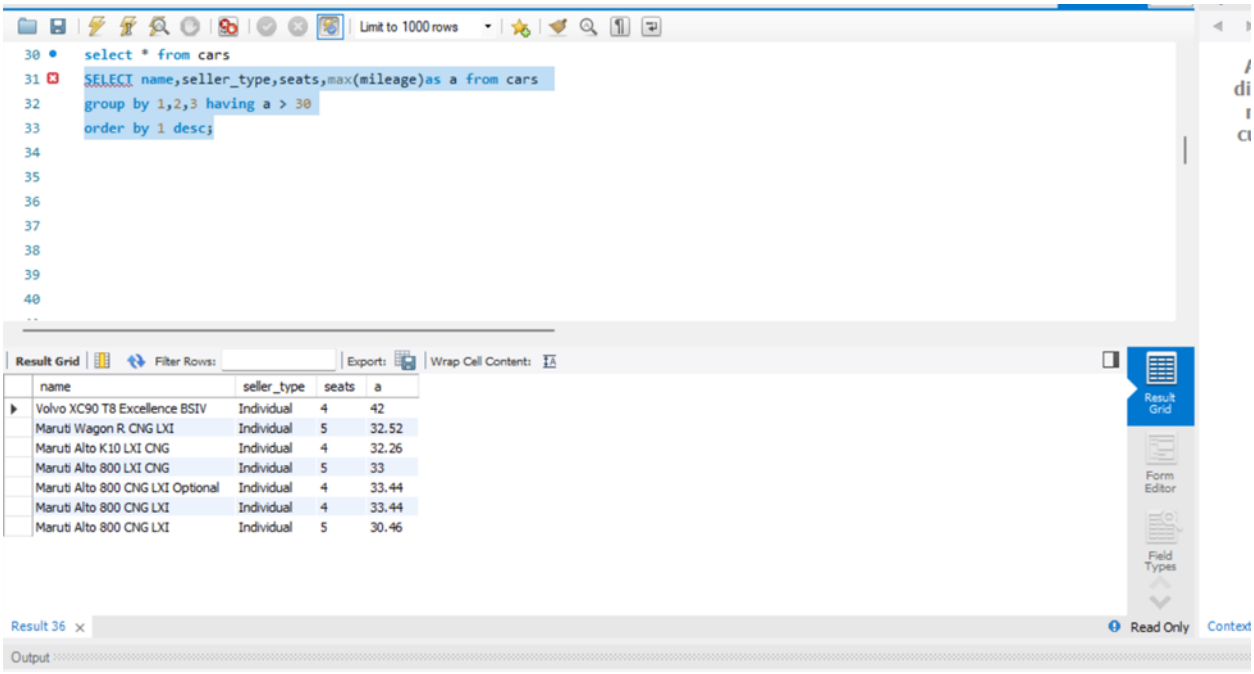
```
27
28 •  SELECT name,transmission,max_power, min(selling_price)AS min from cars
29     group by 1,2,3 order by name  limit 5;
30
31
32
33
34
35
36
37
```

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

name	transmission	max_power	min
Ambassador CLASSIC 1500 DSL AC	Manual	35.5	75000
Ambassador Classic 2000 DSZ AC PS	Manual	52	99000
Ambassador Grand 1500 DSZ BSIII	Manual	52	122000
Ambassador Grand 2000 DSZ PW CL	Manual	52	200000
Ashok Leyland Stile LE	Manual	75	300000

Insight number 8 – maximum mileage

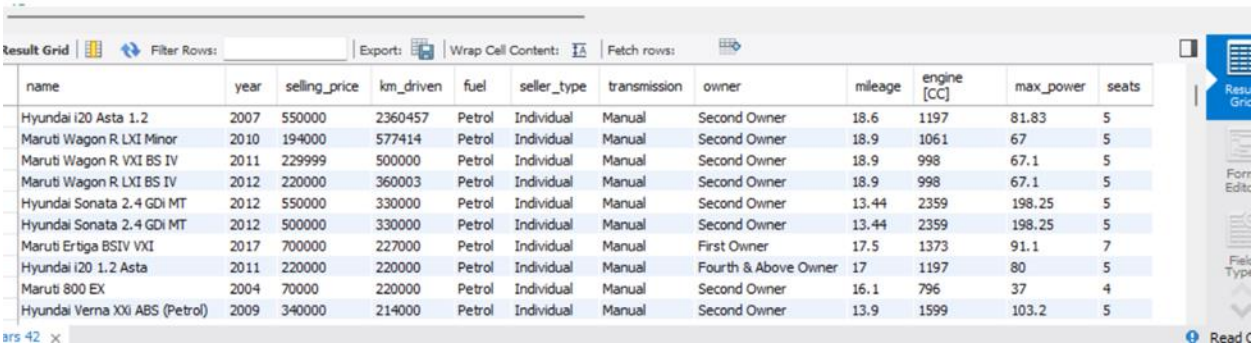
Print the name seller_type seats available in car and find maximum mileage of cars which is having mileage more than 30 and order it by its name descending?



Insight number 9 – name like

print all the details of cars and get the name where ‘’maruti” or “Hyundai”?

```
35 •  select * from cars
36    where name like '%Maruti%' or
37    name like '%Hyundai%'
38
39
40
41
42
43
44
```



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
Maruti 800 EX	2004	70000	220000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4
Hyundai Verna XXi ABS (Petrol)	2009	340000	214000	Petrol	Individual	Manual	Second Owner	13.9	1599	103.2	5

ars 42 ×

Insight number 10 – mileage classification

Categorize the mileage into 2 classes ‘bad’ – when mileage is less than 10, ‘good’ -when mileage is in between 15 to 30 and else ‘great’

Print name,transmission,and the new classification .sort the result in descending order of name?