Prepleaf
by masai

SQL Mini Project L1

Data Analytics SQL Mini-Project

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BATCH : DS - 05

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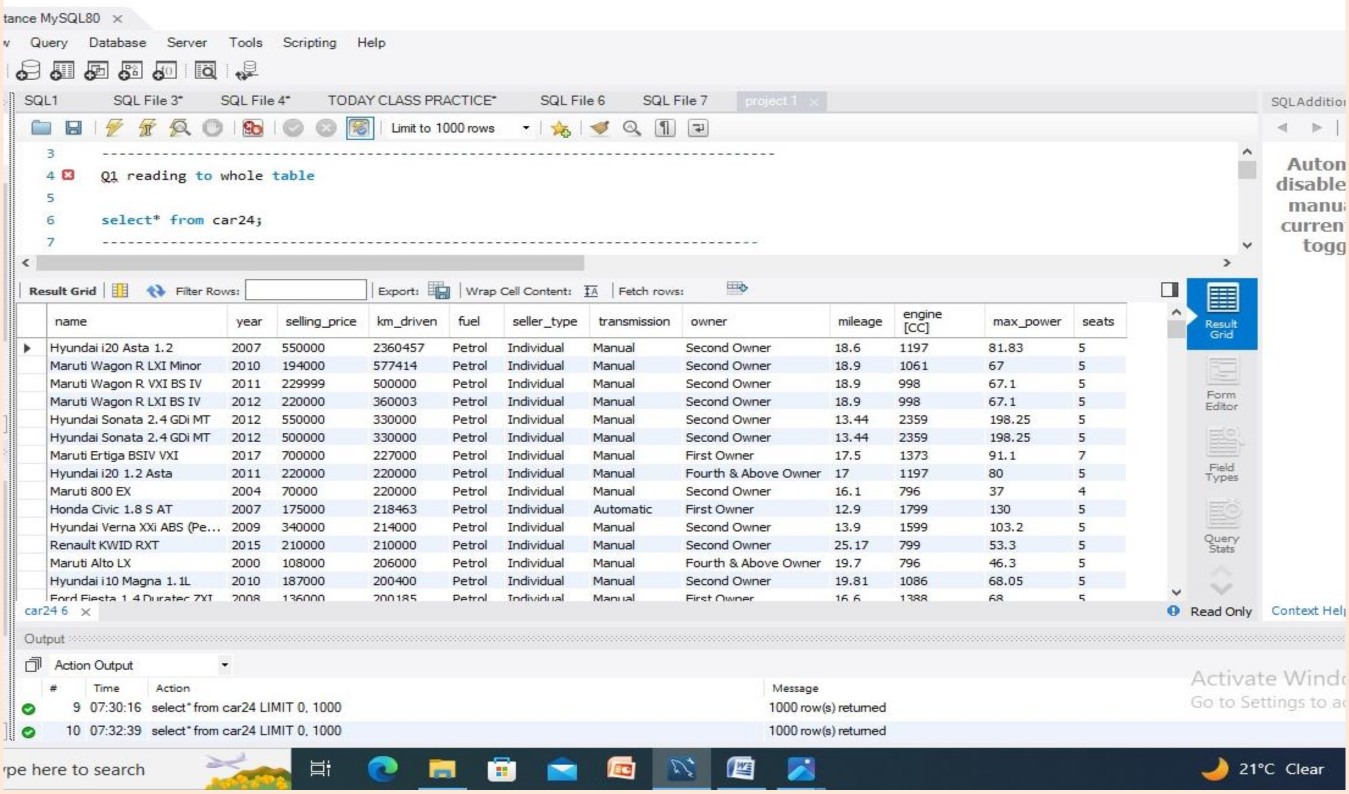
----Reading the whole table

SELECT * FROM CAR24;



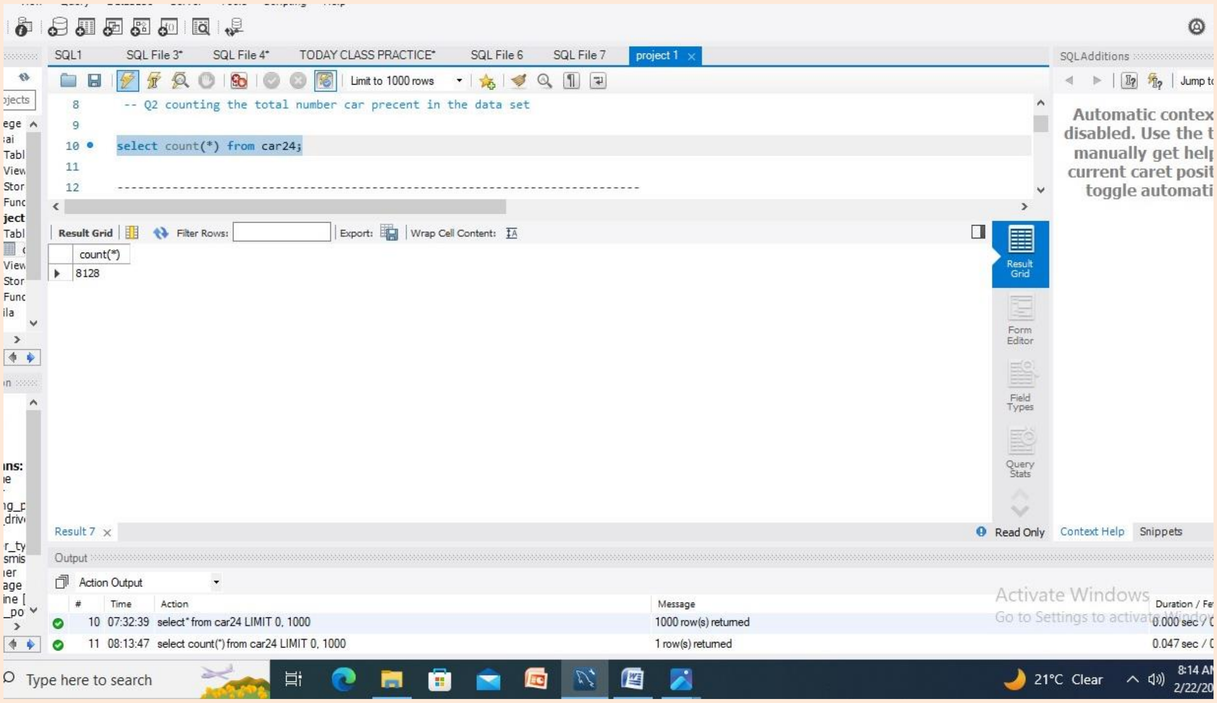
```
------------------------------------------------------------------------------
Q1 reading to whole table

select* from car24;
------------------------------------------------------------------------------
```

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
Honda Civic 1.8 S AT	2007	175000	218463	Petrol	Individual	Automatic	First Owner	12.9	1799	130	5
Hyundai Verna XXi ABS (Pe...	2009	340000	214000	Petrol	Individual	Manual	Second Owner	13.9	1599	103.2	5
Renault KWID RXT	2015	210000	210000	Petrol	Individual	Manual	Second Owner	25.17	799	53.3	5
Maruti Alto LX	2000	108000	206000	Petrol	Individual	Manual	Fourth & Above Owner	19.7	796	46.3	5
Hyundai i10 Magna 1.1L	2010	187000	200400	Petrol	Individual	Manual	Second Owner	19.81	1086	68.05	5
Ford Fiesta 1.4 Duratec ZXI	2008	136000	200185	Petrol	Individual	Manual	First Owner	16.6	1388	68	5

```
 #   Time      Action                              Message
 9   07:30:16  select* from car24 LIMIT 0, 1000    1000 row(s) returned
10   07:32:39  select* from car24 LIMIT 0, 1000    1000 row(s) returned
```

----Counting the total number car present in the data set

SELECT COUNT (*) FROM CAR24;



```
 -- Q2 counting the total number car precent in the data set

select count(*) from car24;

---------------------------------------------------------------------------
```

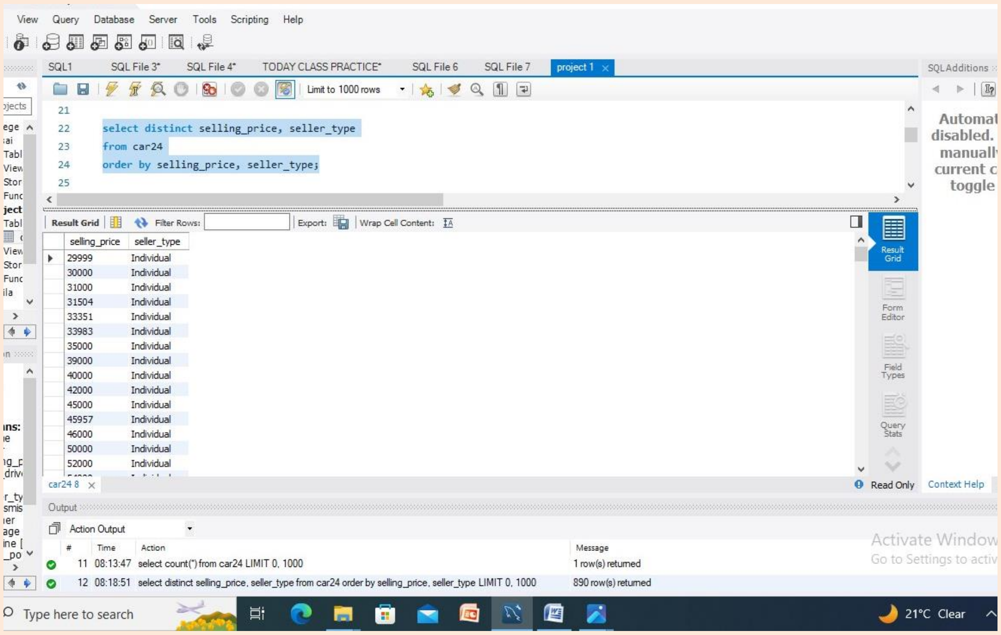
```
count(*)
8128
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```
   #   Time       Action                                      Message                 Duration / Fe
   10  07:32:39   select * from car24 LIMIT 0, 1000           1000 row(s) returned    0.000 sec / 0
   11  08:13:47   select count(*) from car24 LIMIT 0, 1000    1 row(s) returned       0.047 sec / 0
```

---- How many are in that combination ?

```
 select distinct selling_price, seller_type

from car24

order by selling_price, seller_type;
```



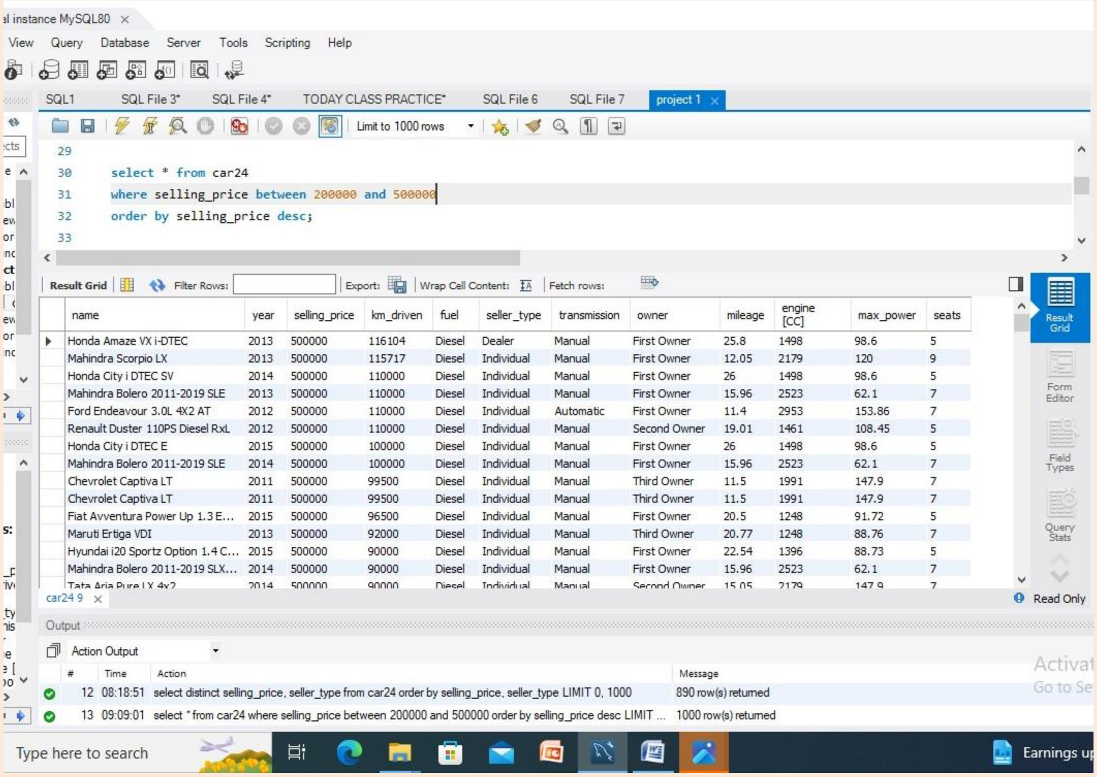
```
select distinct selling_price, seller_type
from car24
order by selling_price, seller_type;
```

selling_price	seller_type
29999	Individual
30000	Individual
31000	Individual
31504	Individual
33351	Individual
33983	Individual
35000	Individual
39000	Individual
40000	Individual
42000	Individual
45000	Individual
45957	Individual
46000	Individual
50000	Individual
52000	Individual

```
#   Time      Action                                                                                        Message
11  08:13:47  select count(*) from car24 LIMIT 0, 1000                                                      1 row(s) returned
12  08:18:51  select distinct selling_price, seller_type from car24 order by selling_price, seller_type LIMIT 0, 1000   890 row(s) returned
```

------Reading the car from the dataset where salling_price between 200000 to 500000 by desc order

```
select * from car24

where selling_price between 200000 and 500000

order by selling_price desc;
```



```
select * from car24
where selling_price between 200000 and 500000
order by selling_price desc;
```

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
▶	Honda Amaze VX i-DTEC	2013	500000	116104	Diesel	Dealer	Manual	First Owner	25.8	1498	98.6	5
	Mahindra Scorpio LX	2013	500000	115717	Diesel	Individual	Manual	First Owner	12.05	2179	120	9
	Honda City i DTEC SV	2014	500000	110000	Diesel	Individual	Manual	First Owner	26	1498	98.6	5
	Mahindra Bolero 2011-2019 SLE	2013	500000	110000	Diesel	Individual	Manual	First Owner	15.96	2523	62.1	7
	Ford Endeavour 3.0L 4X2 AT	2012	500000	110000	Diesel	Individual	Automatic	First Owner	11.4	2953	153.86	7
	Renault Duster 110PS Diesel RxL	2012	500000	110000	Diesel	Individual	Manual	Second Owner	19.01	1461	108.45	5
	Honda City i DTEC E	2015	500000	100000	Diesel	Individual	Manual	First Owner	26	1498	98.6	5
	Mahindra Bolero 2011-2019 SLE	2014	500000	100000	Diesel	Individual	Manual	First Owner	15.96	2523	62.1	7
	Chevrolet Captiva LT	2011	500000	99500	Diesel	Individual	Manual	Third Owner	11.5	1991	147.9	7
	Chevrolet Captiva LT	2011	500000	99500	Diesel	Individual	Manual	Third Owner	11.5	1991	147.9	7
	Fiat Avventura Power Up 1.3 E...	2015	500000	96500	Diesel	Individual	Manual	First Owner	20.5	1248	91.72	5
	Maruti Ertiga VDI	2013	500000	92000	Diesel	Individual	Manual	Third Owner	20.77	1248	88.76	7
	Hyundai i20 Sportz Option 1.4 C...	2015	500000	90000	Diesel	Individual	Manual	First Owner	22.54	1396	88.73	5
	Mahindra Bolero 2011-2019 SLX...	2014	500000	90000	Diesel	Individual	Manual	First Owner	15.96	2523	62.1	7
	Tata Aria Pure LX 4x2	2014	500000	90000	Diesel	Individual	Manual	Second Owner	15.05	2179	147.9	7

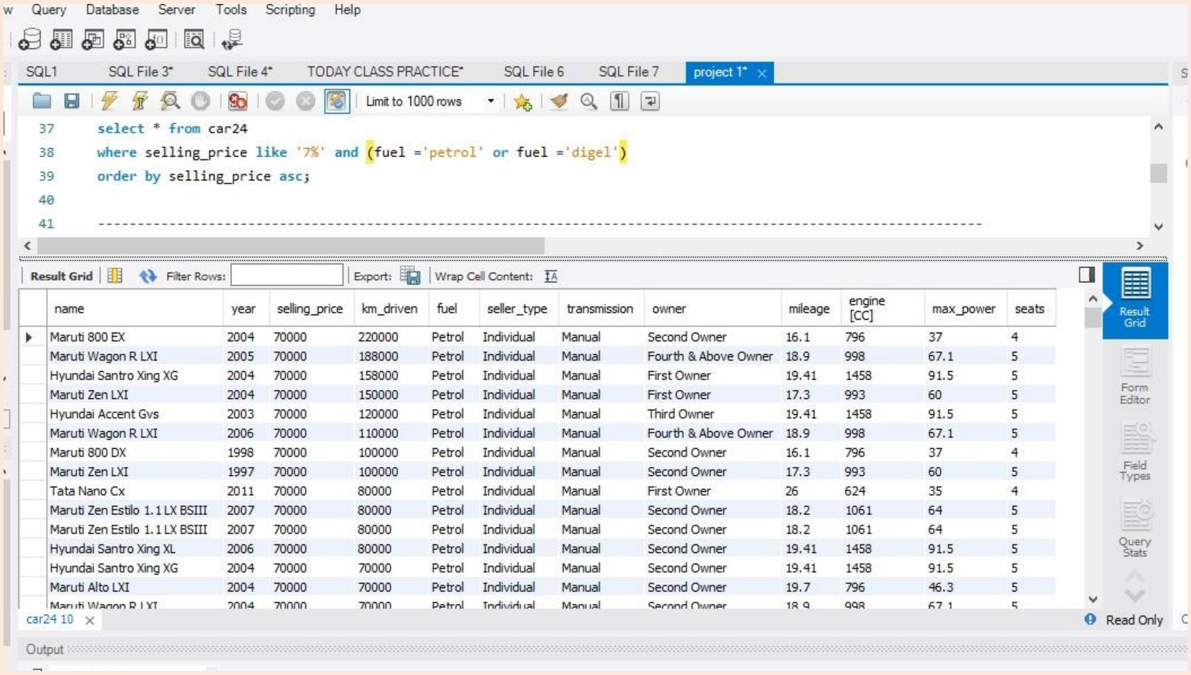
Action Output

#	Time	Action	Message
12	08:18:51	select distinct selling_price, seller_type from car24 order by selling_price, seller_type LIMIT 0, 1000	890 row(s) returned
13	09:09:01	select * from car24 where selling_price between 200000 and 500000 order by selling_price desc LIMIT ...	1000 row(s) returned

-----Print all details of car24 whose selling price starts with the number 7 and whose reside in the fuel of petrol or digel.

Sort the result set in ascending order of selling price

```
    Select * from car24

    where selling_price like '7%' and (fuel ='petrol' or fuel ='digel')

   order by selling_price asc;
```



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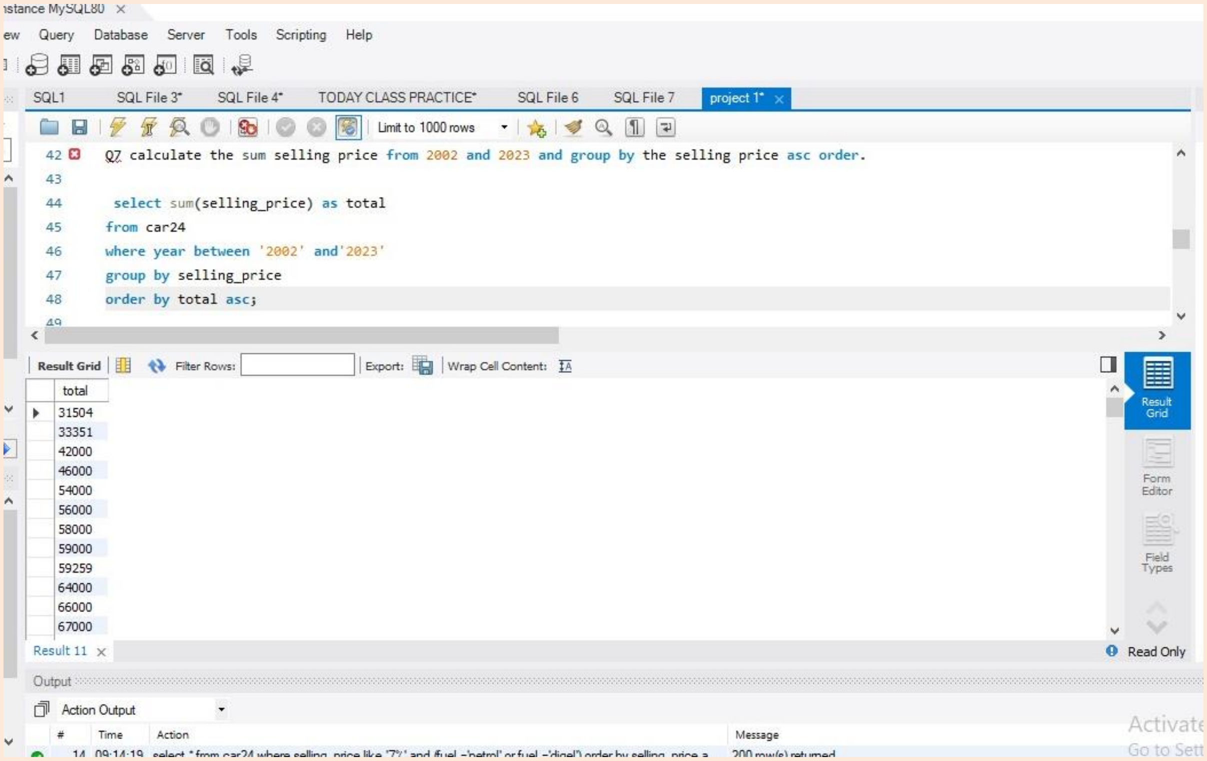
```
select * from car24
where selling_price like '7%' and (fuel ='petrol' or fuel ='digel')
order by selling_price asc;


-------------------------------------------------------------------------------------------------------------------------
```

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Maruti 800 EX	2004	70000	220000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4
Maruti Wagon R LXI	2005	70000	188000	Petrol	Individual	Manual	Fourth & Above Owner	18.9	998	67.1	5
Hyundai Santro Xing XG	2004	70000	158000	Petrol	Individual	Manual	First Owner	19.41	1458	91.5	5
Maruti Zen LXI	2004	70000	150000	Petrol	Individual	Manual	First Owner	17.3	993	60	5
Hyundai Accent Gvs	2003	70000	120000	Petrol	Individual	Manual	Third Owner	19.41	1458	91.5	5
Maruti Wagon R LXI	2006	70000	110000	Petrol	Individual	Manual	Fourth & Above Owner	18.9	998	67.1	5
Maruti 800 DX	1998	70000	100000	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
Tata Nano Cx	2011	70000	80000	Petrol	Individual	Manual	First Owner	26	624	35	4
Maruti Zen Estilo 1.1 LX BSIII	2007	70000	80000	Petrol	Individual	Manual	Second Owner	18.2	1061	64	5
Maruti Zen Estilo 1.1 LX BSIII	2007	70000	80000	Petrol	Individual	Manual	Second Owner	18.2	1061	64	5
Hyundai Santro Xing XL	2006	70000	80000	Petrol	Individual	Manual	Second Owner	19.41	1458	91.5	5
Hyundai Santro Xing XG	2004	70000	70000	Petrol	Individual	Manual	Second Owner	19.41	1458	91.5	5
Maruti Alto LXI	2004	70000	70000	Petrol	Individual	Manual	Second Owner	19.7	796	46.3	5
Maruti Wagon R LXI	2004	70000	70000	Petrol	Individual	Manual	Second Owner	18.9	998	67.1	5

----calculate the sum selling price from 2002 and 2023 and group by the selling price asc order.

```
 select sum(selling_price) as total
  from car24
 where year between '2002' and'2023'
 group by selling_price
order by total asc;
```



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ew Query Database Server Tools Scripting Help
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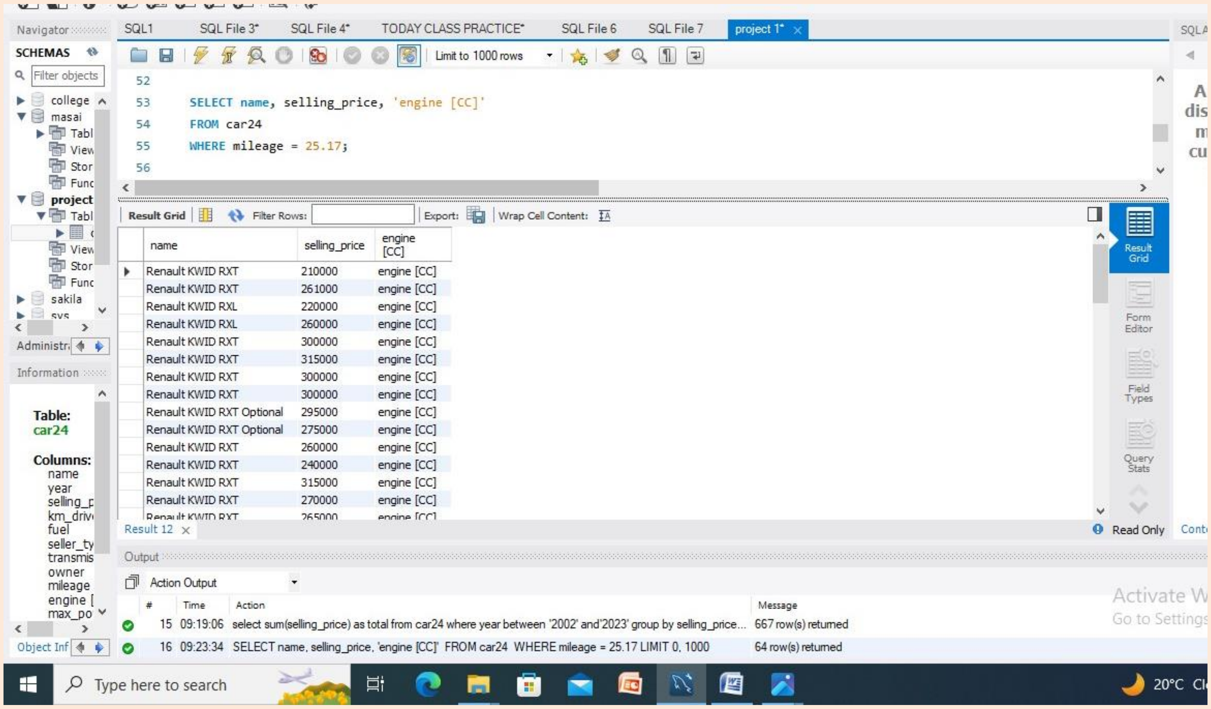
```
Q7 calculate the sum selling price from 2002 and 2023 and group by the selling price asc order.

 select sum(selling_price) as total
from car24
where year between '2002' and'2023'
group by selling_price
order by total asc;
```

total
31504
33351
42000
46000
54000
56000
58000
59000
59259
64000
66000
67000

```
#    Time      Action                                                                                       Message
14   09:14:19  select * from car24 where selling_price like '7%' and (fuel ='petrol' or fuel ='digel') order by selling_price a   200 row(s) returned
```

----Read name , selling_price, engine [CC] where mileage = 25.17

```
    SELECT name, selling_price, 'engine [CC]'

    FROM car24

WHERE mileage = 25.17;
```



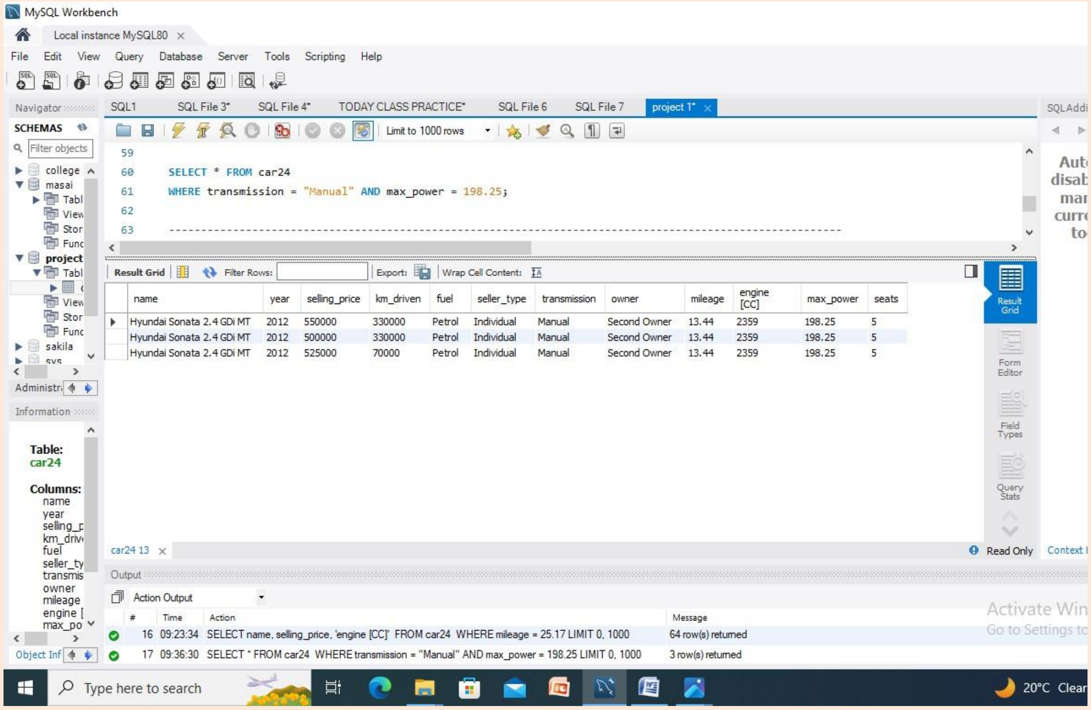
```
SELECT name, selling_price, 'engine [CC]'
FROM car24
WHERE mileage = 25.17;
```

name	selling_price	engine [CC]
Renault KWID RXT	210000	engine [CC]
Renault KWID RXT	261000	engine [CC]
Renault KWID RXL	220000	engine [CC]
Renault KWID RXL	260000	engine [CC]
Renault KWID RXT	300000	engine [CC]
Renault KWID RXT	315000	engine [CC]
Renault KWID RXT	300000	engine [CC]
Renault KWID RXT	300000	engine [CC]
Renault KWID RXT Optional	295000	engine [CC]
Renault KWID RXT Optional	275000	engine [CC]
Renault KWID RXT	260000	engine [CC]
Renault KWID RXT	240000	engine [CC]
Renault KWID RXT	315000	engine [CC]
Renault KWID RXT	270000	engine [CC]
Renault KWID RXT	265000	engine [CC]

```
#   Time      Action                                                                                              Message
15  09:19:06  select sum(selling_price) as total from car24 where year between '2002' and'2023' group by selling_price...  667 row(s) returned
16  09:23:34  SELECT name, selling_price, 'engine [CC]'  FROM car24  WHERE mileage = 25.17 LIMIT 0, 1000                64 row(s) returned
```

-----Read the table where transmission = Manual AND max_power = 198.25

```
    SELECT * FROM car24
WHERE transmission = "Manual" AND max_power = 198.25;
```



```
SELECT * FROM car24
WHERE transmission = "Manual" AND max_power = 198.25;

-----------------------------------------------------------------------------------------------------
```

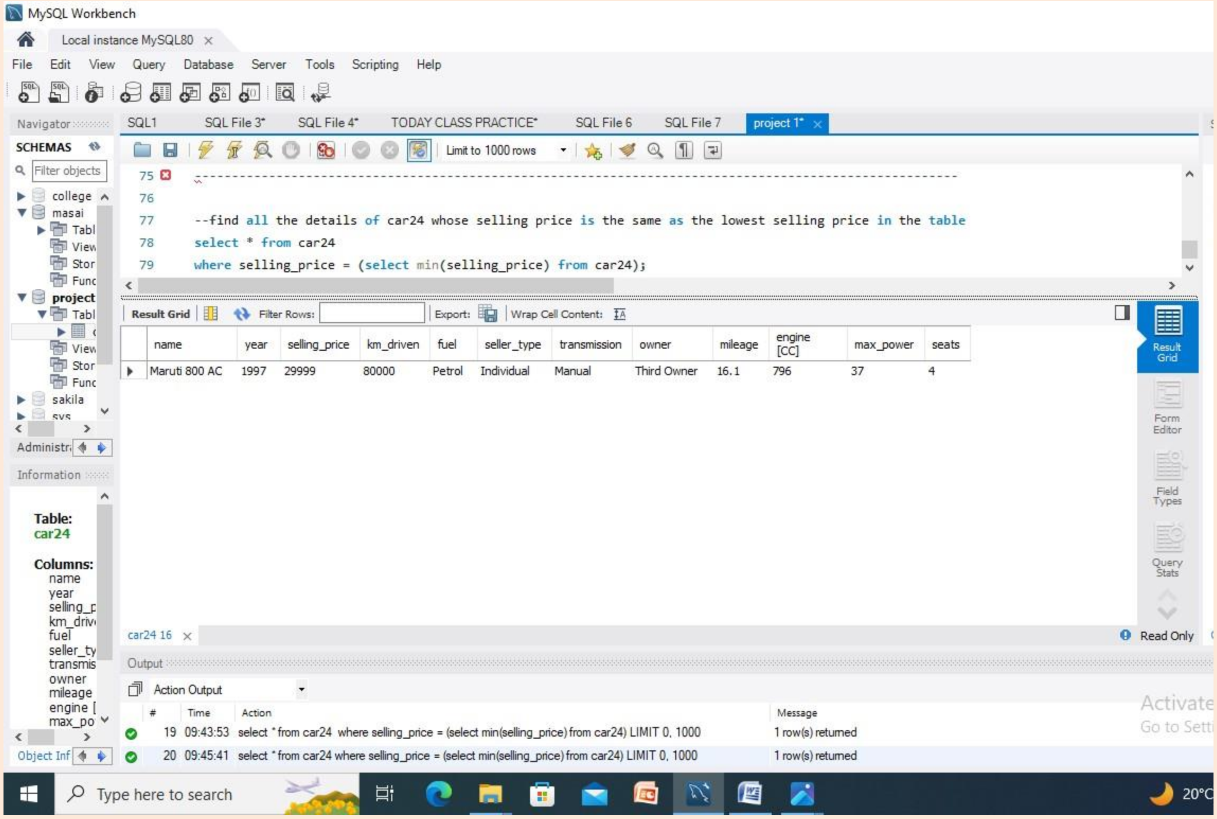
	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
▸	Hyundai Sonata 2.4 GDi MT	2012	550000	330000	Petrol	Individual	Manual	Second Owner	13.44	2359	198.25	5
	Hyundai Sonata 2.4 GDi MT	2012	500000	330000	Petrol	Individual	Manual	Second Owner	13.44	2359	198.25	5
	Hyundai Sonata 2.4 GDi MT	2012	525000	70000	Petrol	Individual	Manual	Second Owner	13.44	2359	198.25	5

	#	Time	Action	Message
✓	16	09:23:34	SELECT name, selling_price, 'engine [CC]' FROM car24 WHERE mileage = 25.17 LIMIT 0, 1000	64 row(s) returned
✓	17	09:36:30	SELECT * FROM car24 WHERE transmission = "Manual" AND max_power = 198.25 LIMIT 0, 1000	3 row(s) returned

--find all the details of car24 whose selling price is the same as the lowest selling price in the table

select * from car24

where selling_price = (select min(selling_price) from car24);



```
--------------------------------------------------------------------------------------------------------


--find all the details of car24 whose selling price is the same as the lowest selling price in the table
select * from car24
where selling_price = (select min(selling_price) from car24);
```

name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
Maruti 800 AC	1997	29999	80000	Petrol	Individual	Manual	Third Owner	16.1	796	37	4

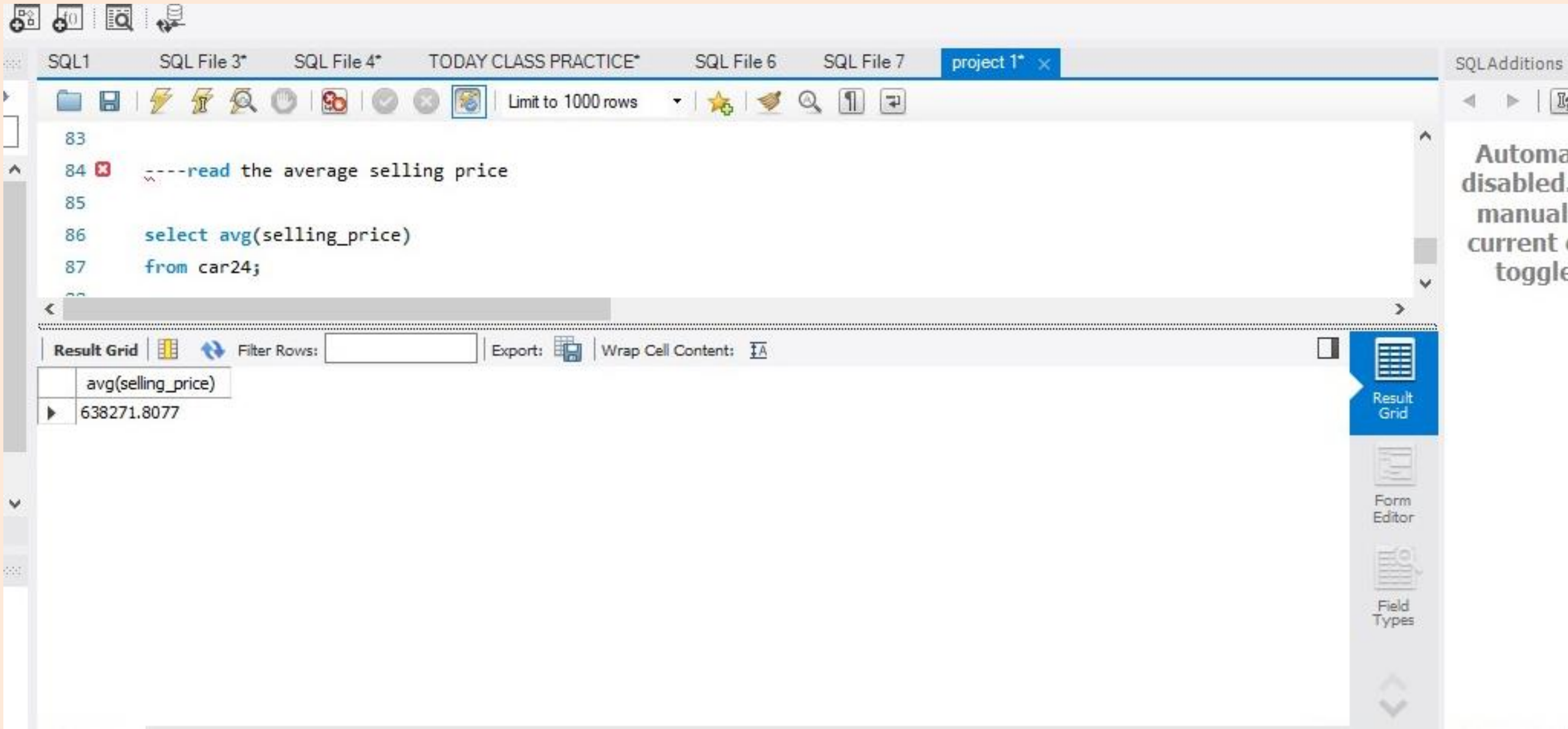
Table: car24

Columns: name year selling_p km_driv fuel seller_ty transmis owner mileage engine [max_po

```
#   Time      Action                                                                               Message
19  09:43:53  select * from car24  where selling_price = (select min(selling_price) from car24) LIMIT 0, 1000   1 row(s) returned
20  09:45:41  select * from car24 where selling_price = (select min(selling_price) from car24) LIMIT 0, 1000    1 row(s) returned
```

----read the average selling price

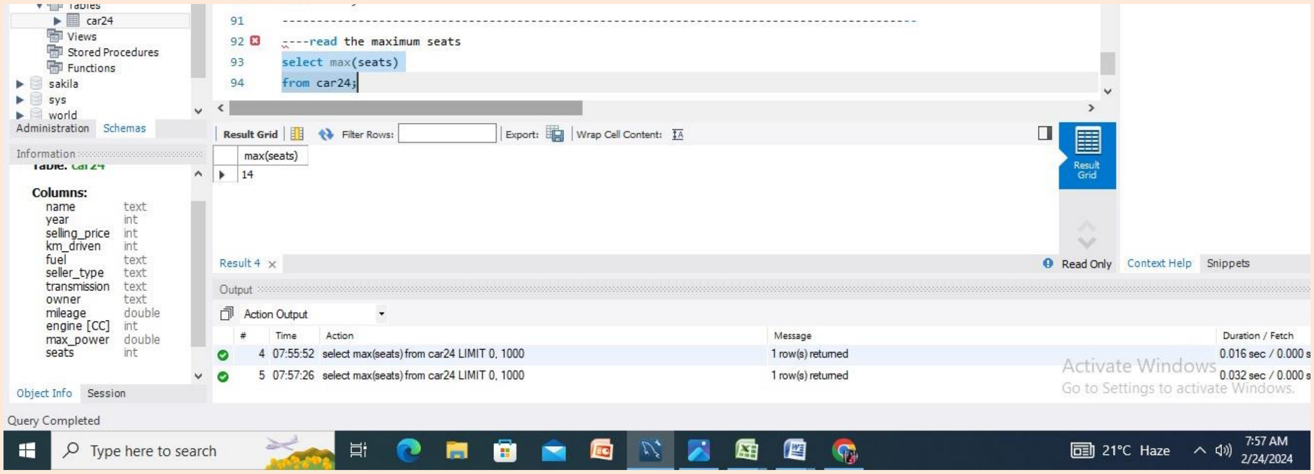
```
select avg(selling_price)

from car24;
```



```
----read the average selling price

select avg(selling_price)
from car24;
```

avg(selling_price)
638271.8077

```
----read the maximum seats

select max(seats)

from car24;
```



```
----read the maximum seats
select max(seats)
from car24;
```

max(seats)
14

Table: car24

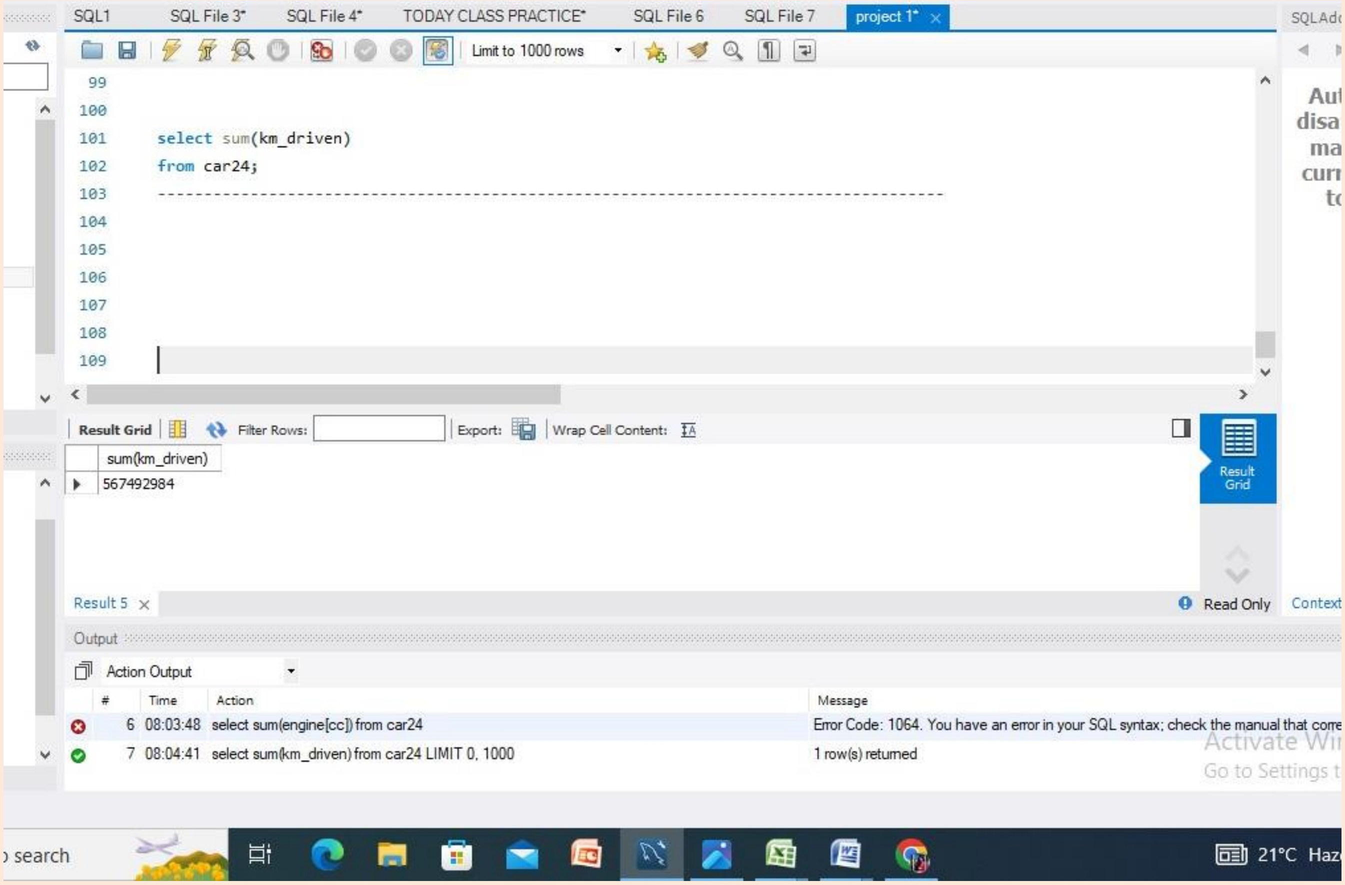
Columns:

name	text
year	int
selling_price	int
km_driven	int
fuel	text
seller_type	text
transmission	text
owner	text
mileage	double
engine [CC]	int
max_power	double
seats	int

```
#  Time      Action                                          Message            Duration / Fetch
4  07:55:52  select max(seats) from car24 LIMIT 0, 1000     1 row(s) returned  0.016 sec / 0.000 s
5  07:57:26  select max(seats) from car24 LIMIT 0, 1000     1 row(s) returned  0.032 sec / 0.000 s
```

Query Completed

```
--read the sum km driven

  select sum(km_driven)

    from car24;
```



```
select sum(km_driven)
from car24;
-----------------------------------------------------------------------------------------
```

	sum(km_driven)
▶	567492984

```
#  Time      Action                                            Message
6  08:03:48  select sum(engine[cc]) from car24                 Error Code: 1064. You have an error in your SQL syntax; check the manual that corre
7  08:04:41  select sum(km_driven) from car24 LIMIT 0, 1000    1 row(s) returned
```