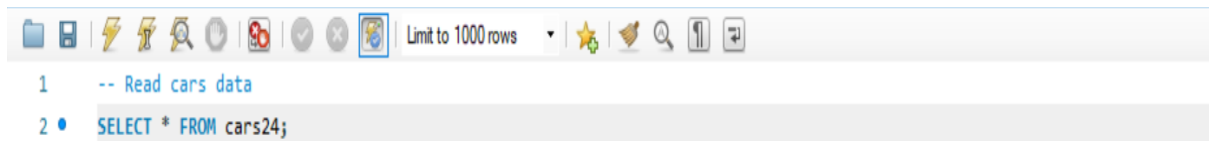


Data Analytics SQL Mini-Project

Insight number 1 –

-- Read cars data

SELECT * FROM cars24;



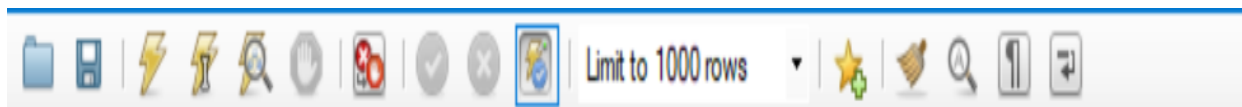
A screenshot of a database result grid displaying the output of the SQL query. The grid has a toolbar with options for 'Result Grid', 'Filter Rows', 'Export', 'Wrap Cell Content', and 'Fetch rows'. The data is presented in a table with 12 columns: name, year, selling_price, km_driven, fuel, seller_type, transmission, owner, mileage, engine [CC], max_power, and seats. The table contains 20 rows of car data. A search bar is visible at the bottom left of the grid.

	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
	Maruti Swift Dzire 1.2 Vxi ...	2010	210000	200000	Petrol	Individual	Manual	First Owner	17.5	1197	85.8	5
	Maruti Zen Estilo VXI BSIV	2010	160000	200000	Petrol	Individual	Manual	First Owner	19	998	67.1	5
	Honda CR-V 2.0L 2WD AT		5000	200000	Petrol	Individual	Automatic	Third Owner	13.1	1997	141.1	5

Insight number 2-

-- counting the total number cars present in the data set

select count(*) from cars24



```
1  -- counting the total number cars present in the data set
2  • select count(*) from cars24;
3
```

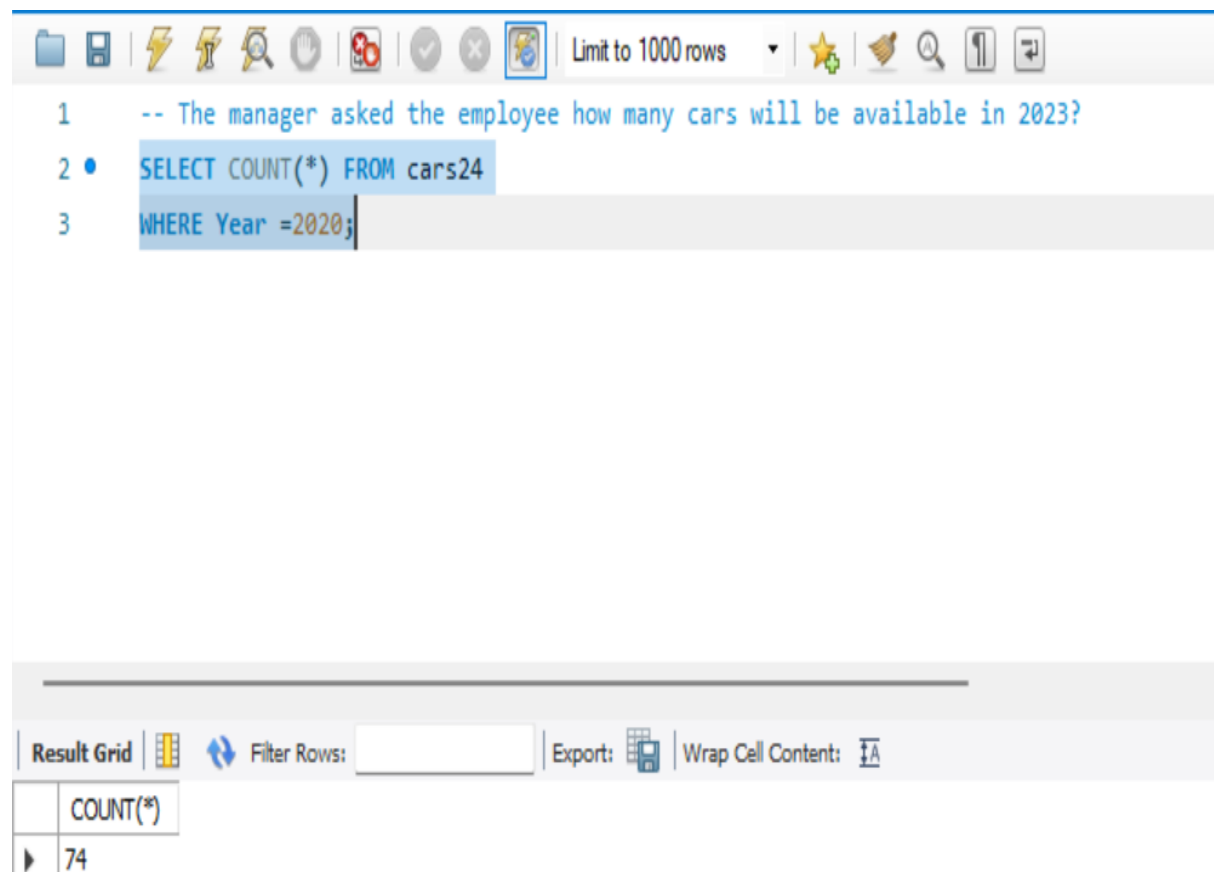
Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	count(*)			
	8128			

Insight number 3–

--The manager asked the employee how many cars will be available in 2023?

```
SELECT COUNT(*) FROM cars24
```

```
WHERE Year =2020;
```



The screenshot shows a SQL query editor interface. The top toolbar includes icons for file operations, execution, and a 'Limit to 1000 rows' dropdown. The query text is as follows:

```
1  -- The manager asked the employee how many cars will be available in 2023?  
2  SELECT COUNT(*) FROM cars24  
3  WHERE Year =2020;
```

Below the query editor, the results are displayed in a table with the following structure:

	COUNT(*)
▶	74

The interface also includes a 'Result Grid' button, a 'Filter Rows' input field, and 'Export' and 'Wrap Cell Content' options.

Insight number 4 –

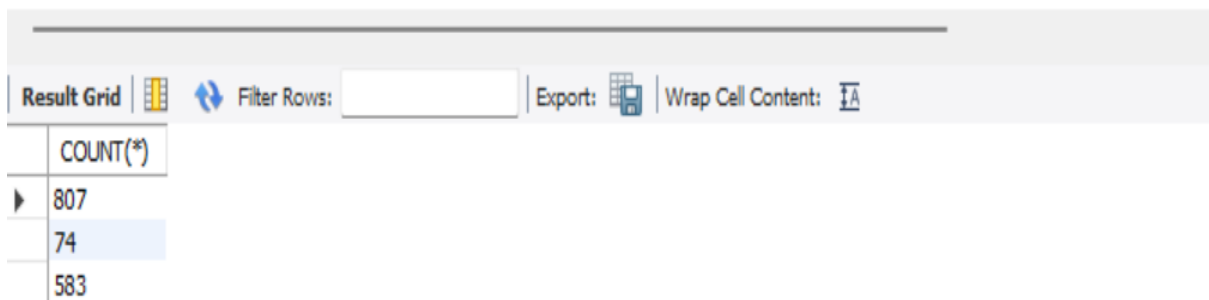
-- The manager asked the employee how many cars is available in 2018,2019,2020

```
SELECT COUNT(*) FROM cars24  
WHERE Year IN (2018,2019,2020)  
GROUP BY Year;
```



The screenshot shows a SQL query editor interface. The toolbar at the top includes icons for file operations, execution, and settings. The query text is as follows:

```
1  -- The manager asked the employee how many cars is available in 2018,2019,2020  
2  • SELECT COUNT(*) FROM cars24  
3  WHERE Year IN (2018,2019,2020)  
4  GROUP BY Year;  
5  
6
```



The screenshot shows the result grid of the SQL query. The grid has a header row with the column name 'COUNT(*)'. The data rows show the count of cars for each year: 807 for 2018, 74 for 2019, and 583 for 2020.

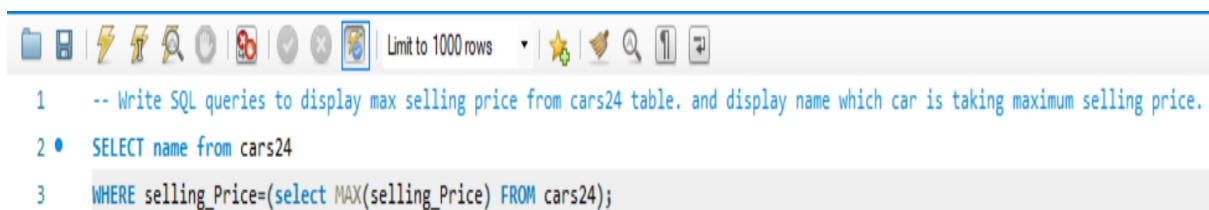
COUNT(*)
807
74
583

Insight number 5–

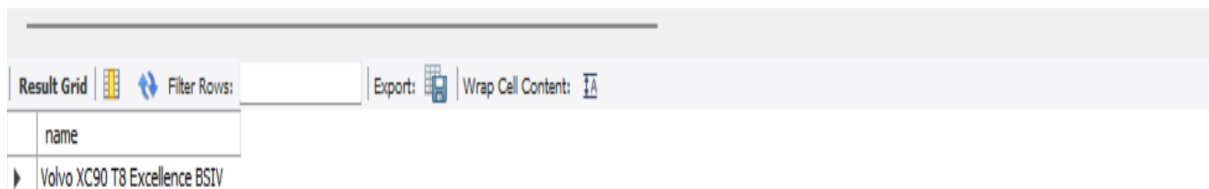
-- Write SQL queries to display max selling price from cars24 table. and display name which car is taking maximum selling price.

SELECT name from cars24

WHERE selling_Price=(select MAX(selling_Price) FROM cars24);



```
1 -- Write SQL queries to display max selling price from cars24 table. and display name which car is taking maximum selling price.
2 • SELECT name from cars24
3 WHERE selling_Price=(select MAX(selling_Price) FROM cars24);
```



name
Volvo XC90 T8 Excellence BSIV

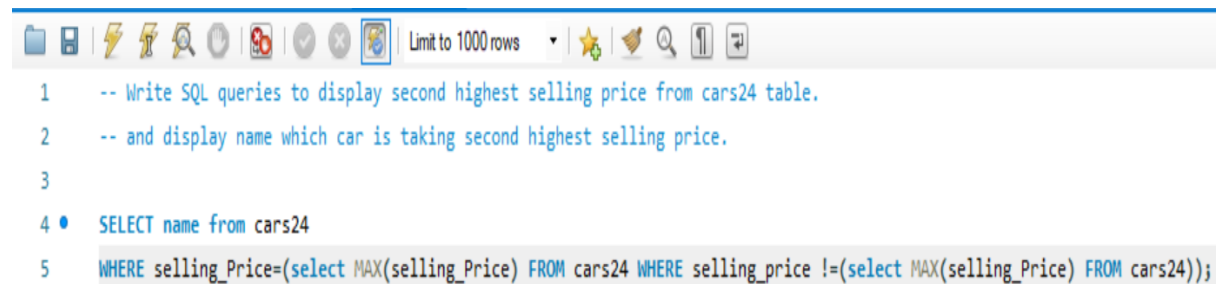
Insight number 6–

-- Write SQL queries to display second highest selling price from cars24 table.

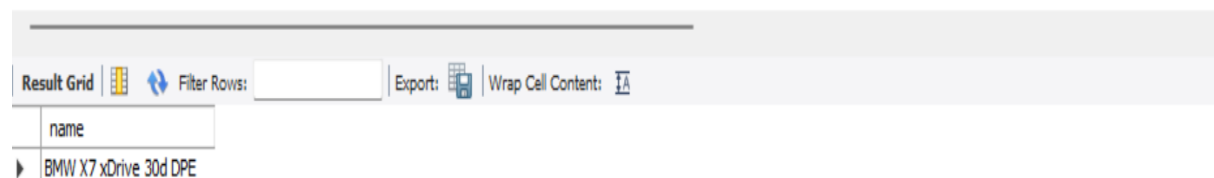
-- and display name which car is taking second highest selling price.

SELECT name from cars24

**WHERE selling_Price=(select MAX(selling_Price) FROM cars24 WHERE
selling_price !=(select MAX(selling_Price) FROM cars24));**



```
1 -- Write SQL queries to display second highest selling price from cars24 table.
2 -- and display name which car is taking second highest selling price.
3
4 • SELECT name from cars24
5 WHERE selling_Price=(select MAX(selling_Price) FROM cars24 WHERE selling_price !=(select MAX(selling_Price) FROM cars24));
```



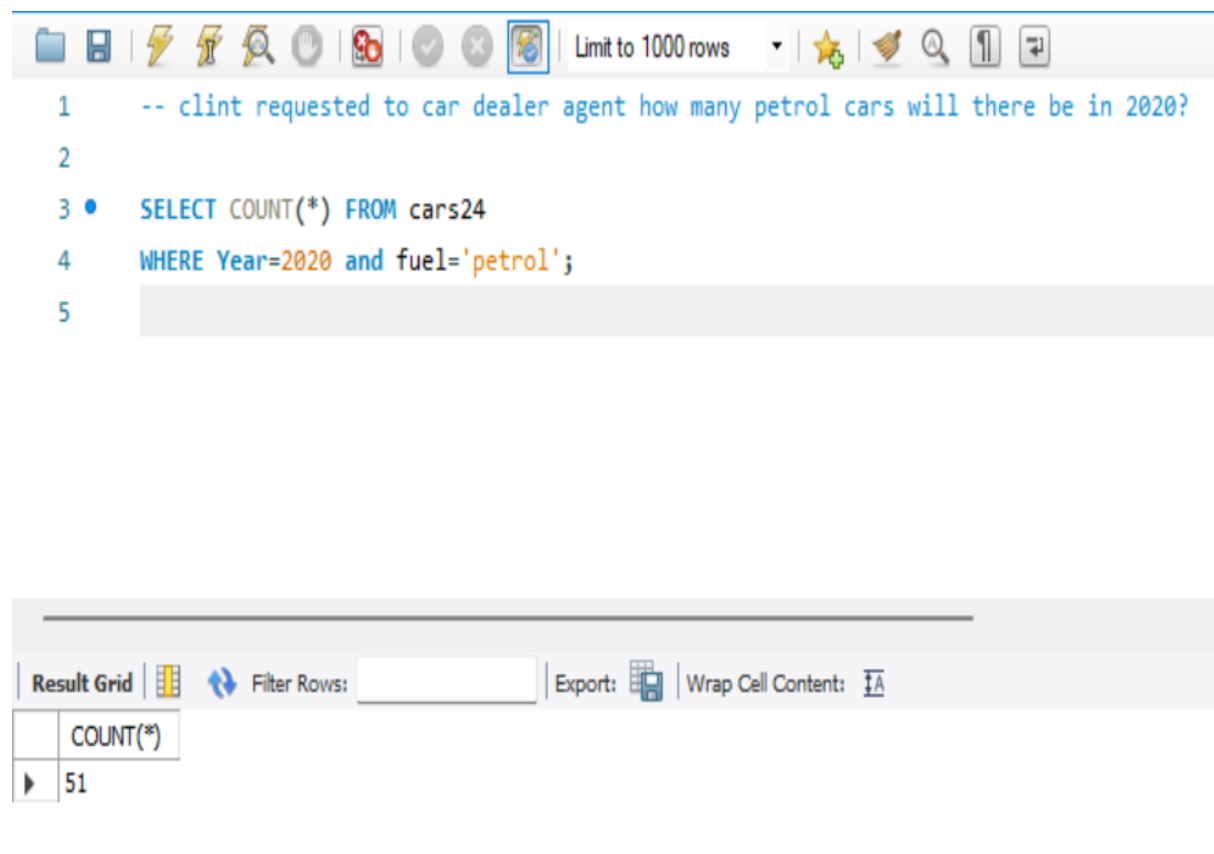
name
BMW X7 xDrive 30d DPE

Insight number 7–

-- clint requested to car dealer agent how many petrol cars will there be in 2020?

SELECT COUNT(*) FROM cars24

WHERE Year=2020 and fuel='petrol';



The screenshot shows a SQL query editor interface. The top toolbar includes icons for file operations, execution, and search, along with a dropdown menu set to "Limit to 1000 rows". The query editor contains the following SQL code:

```
1  -- clint requested to car dealer agent how many petrol cars will there be in 2020?
2
3  •  SELECT COUNT(*) FROM cars24
4     WHERE Year=2020 and fuel='petrol';
5
```

Below the query editor is a horizontal separator line. Underneath, there is a toolbar with "Result Grid" (selected), "Filter Rows:" (with an empty input field), "Export:" (with a download icon), and "Wrap Cell Content:" (with a text icon). Below this toolbar is a table representing the result grid:

	COUNT(*)
▶	51

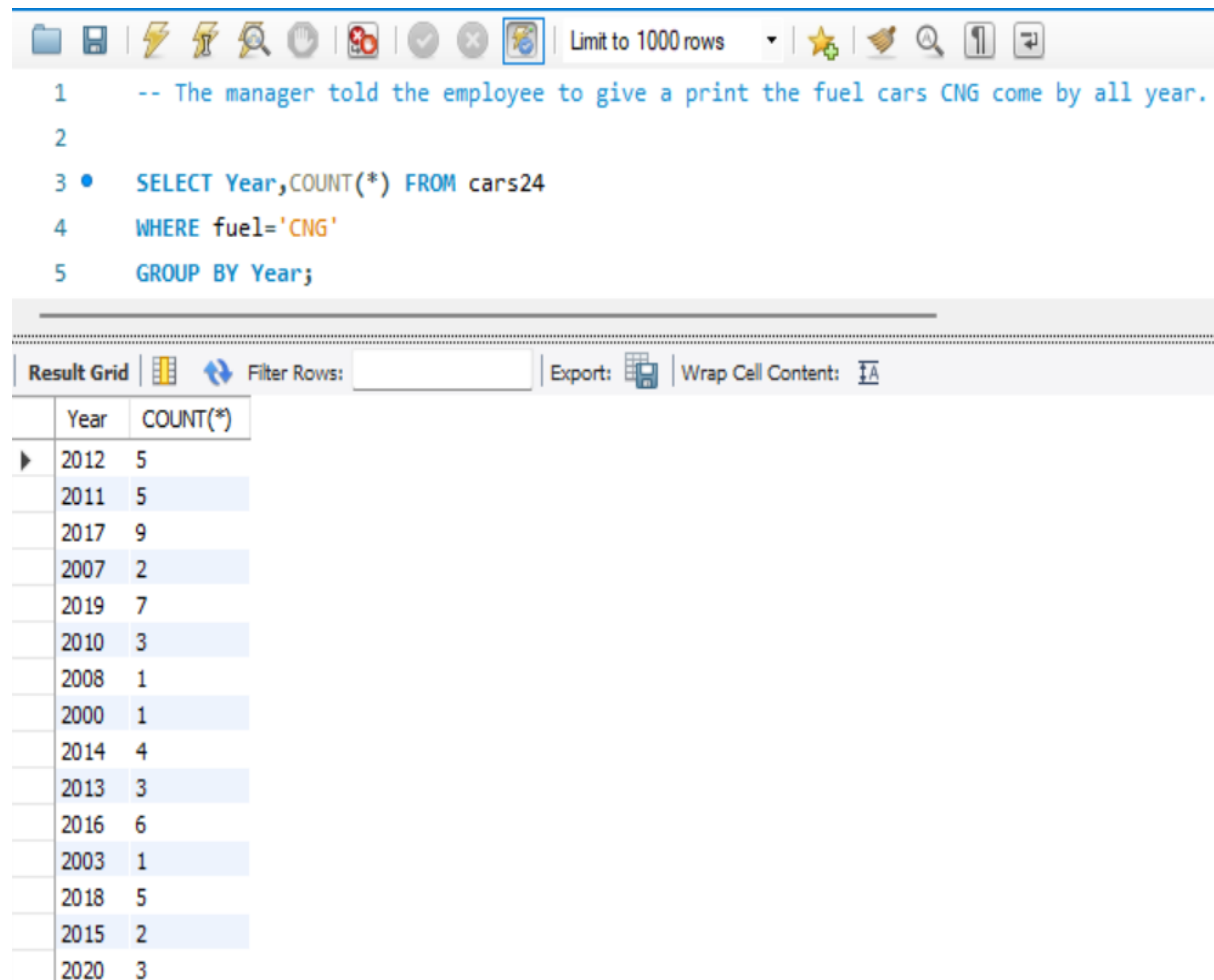
Insight number 8 –

-- The manager told the employee to give a print the fuel cars CNG come by all year.

```
SELECT Year,COUNT(*) FROM cars24
```

```
WHERE fuel='CNG'
```

```
GROUP BY Year;
```



Limit to 1000 rows

```
1 -- The manager told the employee to give a print the fuel cars CNG come by all year.  
2  
3 • SELECT Year,COUNT(*) FROM cars24  
4 WHERE fuel='CNG'  
5 GROUP BY Year;
```

	Year	COUNT(*)
▶	2012	5
	2011	5
	2017	9
	2007	2
	2019	7
	2010	3
	2008	1
	2000	1
	2014	4
	2013	3
	2016	6
	2003	1
	2018	5
	2015	2
	2020	3

Result 1 x

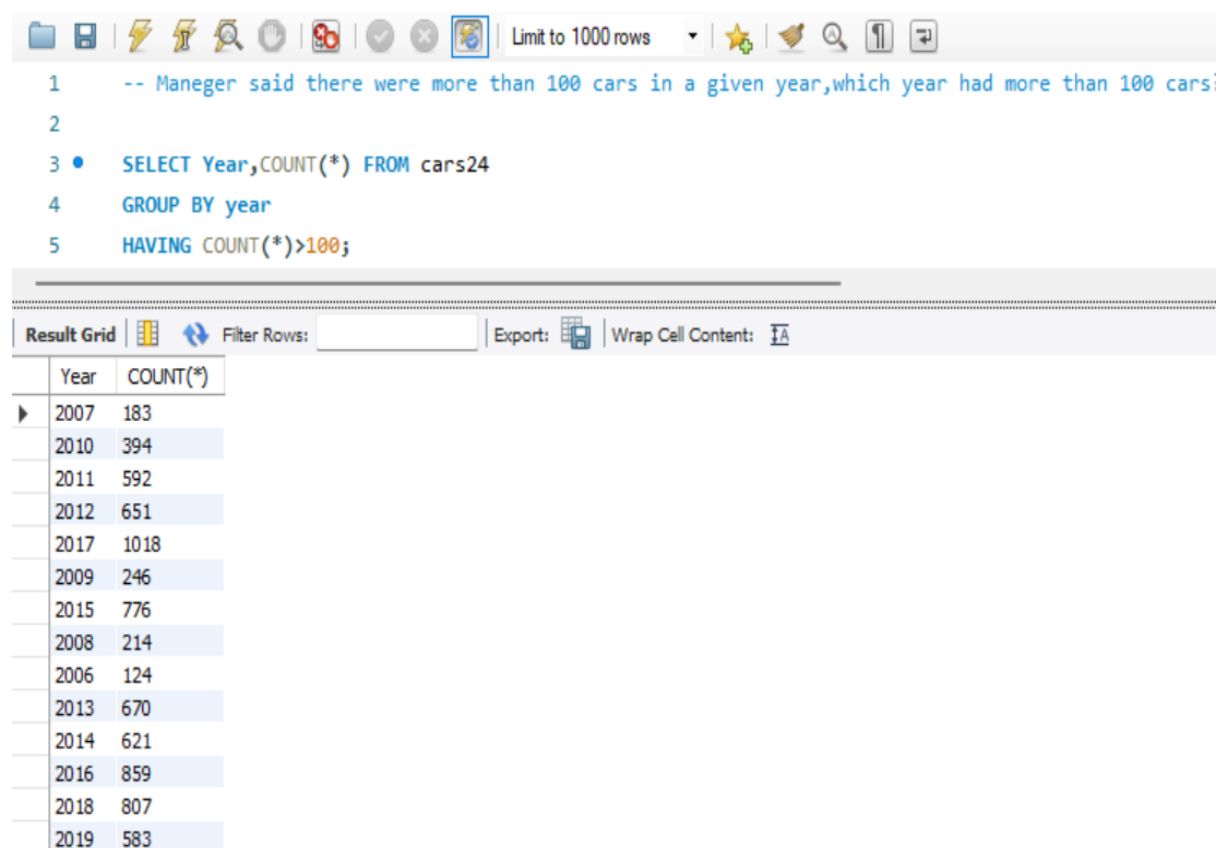
Insight number 9 –

-- Maneger said there were more than 100 cars in a given year,which year had more than 100 cars?

```
SELECT Year,COUNT(*) FROM cars24
```

```
GROUP BY year
```

```
HAVING COUNT(*)>100;
```



```
1 -- Maneger said there were more than 100 cars in a given year,which year had more than 100 cars:
2
3 • SELECT Year,COUNT(*) FROM cars24
4 GROUP BY year
5 HAVING COUNT(*)>100;
```

Year	COUNT(*)
2007	183
2010	394
2011	592
2012	651
2017	1018
2009	246
2015	776
2008	214
2006	124
2013	670
2014	621
2016	859
2018	807
2019	583

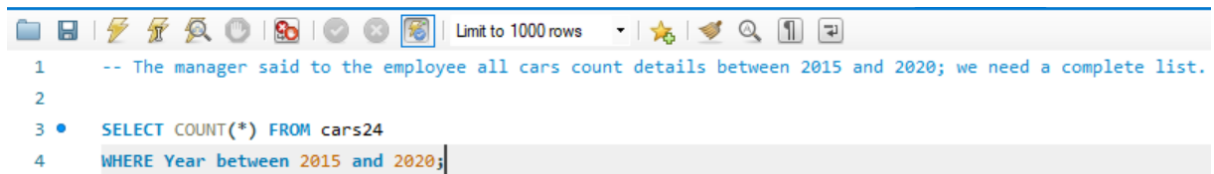
Result 1 x

Insight number 10 –

-- The manager said to the employee all cars count details between 2015 and 2020; we need a complete list.

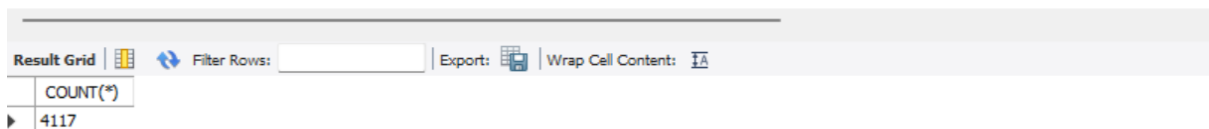
```
SELECT COUNT(*) FROM cars24
```

```
WHERE Year between 2015 and 2020;
```



A screenshot of a SQL query editor interface. The top toolbar includes icons for file operations, execution, and settings. A dropdown menu shows 'Limit to 1000 rows'. The query text is as follows:

```
1  -- The manager said to the employee all cars count details between 2015 and 2020; we need a complete list.  
2  
3  •  SELECT COUNT(*) FROM cars24  
4  WHERE Year between 2015 and 2020;
```



A screenshot of a SQL query result grid. The toolbar shows 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. The result is displayed in a table with one column and one row.

COUNT(*)
4117

Insight number 11 –

--The manager said to the employee all cars details between 2015 to 2023 we need complete list.

SELECT * FROM cars24

WHERE Year BETWEEN 2015 AND 2023;

Limit to 1000 rows												
1	-- The manager said to the employee all cars details between 2015 to 2023 we need complete list.											
2												
3	• SELECT * FROM cars24											
4	WHERE Year BETWEEN 2015 AND 2023;											

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
	Maruti Swift Dzire Tour S CNG	2018	455000	100000	Petrol	Individual	Manual	Second Owner	19	1197	85.8	5
	Ford Figo 1.2P Titanium MT	2017	400000	100000	Petrol	Individual	Manual	First Owner	18.16	1196	86.8	5
	Mahindra KUV 100 mFALCON...	2016	400000	100000	Petrol	Individual	Manual	First Owner	18.15	1198	82	5
	Hyundai Xcent 1.2 Kappa AT...	2015	400000	100000	Petrol	Individual	Automatic	First Owner	16.9	1197	81.86	5
	Mahindra KUV 100 mFALCON...	2016	350000	100000	Petrol	Individual	Manual	Second Owner	18.15	1198	82	5
	Hyundai Grand i10 Sportz	2015	350000	100000	Petrol	Individual	Manual	First Owner	18.9	1197	82	5
	Maruti Swift LXI Optional-O	2015	350000	100000	Petrol	Individual	Manual	First Owner	20.4	1197	83.11	5
	Tata Tiago 1.2 Revotron XE	2018	325000	100000	Petrol	Individual	Manual	First Owner	23.84	1199	84	5
	Hyundai i10 Magna 1.1L	2015	287000	100000	Petrol	Individual	Manual	Second Owner	19.81	1086	68.05	5
	Hyundai EON 1.0 Magna Plus...	2016	280000	100000	Petrol	Individual	Manual	First Owner	20.3	998	68.05	5
	Maruti Eeco 7 Seater Standa...	2016	270000	100000	Petrol	Individual	Manual	Third Owner	15.37	1196	73	7
	Maruti Eeco 7 Seater Standa...	2016	270000	100000	Petrol	Individual	Manual	Third Owner	15.37	1196	73	7
	Hyundai EON Magna Plus	2017	265000	100000	Petrol	Individual	Manual	First Owner	21.1	814	55.2	5
	Hyundai EON D Lite Plus Option	2016	220000	100000	Petrol	Individual	Manual	First Owner	21.1	814	55.2	5
	Maruti Swift Dzire VXI	2015	540000	93000	Petrol	Individual	Manual	Second Owner	20.85	1197	83.14	5
	Hyundai Xcent 1.2 Kappa S ...	2015	409999	93000	Petrol	Individual	Manual	First Owner	19.1	1197	81.86	5
	Hyundai Creta 1.6 Gamma S...	2015	900000	90000	Petrol	Individual	Manual	First Owner	15.29	1591	121.3	5
	Ford EcoSport 1.5 Petrol Tita...	2018	850000	90000	Petrol	Individual	Manual	First Owner	17	1497	121.36	5

cars24 1 x