

DATA SCIENCE SQL MINI PROJECT

AIM:

To generate meaningful business insight using SQL Queries

Queries

❖ To read all the contents from Table “cars24” using “Select”

Use project;

Select * from cars24;

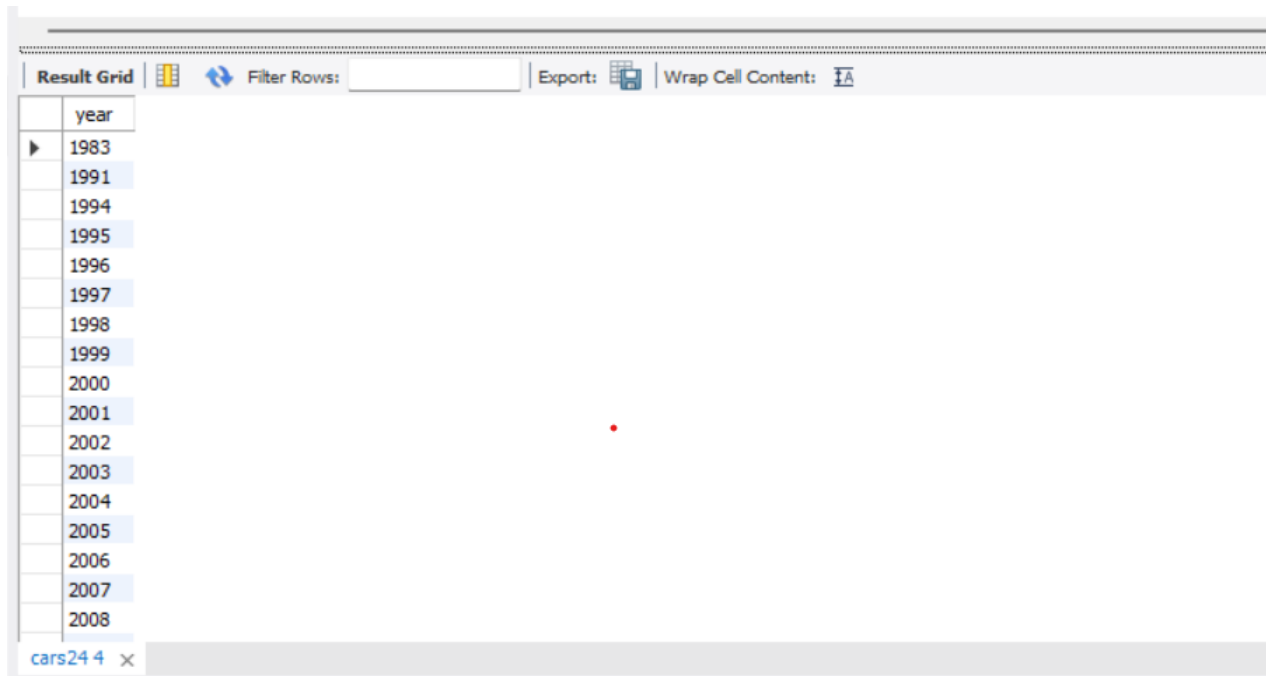
Result Grid												
Filter Rows:			Export:		Wrap Cell Content:		Fetch rows:					
	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
▶	Hyundai i20 Asta 1.2	2007	550000	2360457	Petrol	Individual	Manual	Second Owner	18.6	1197	81.83	5
	Maruti Wagon 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
	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 XDi 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

cars24 1 x

❖ To Find unique years using “Distinct”

select distinct year from cars24

order by year;



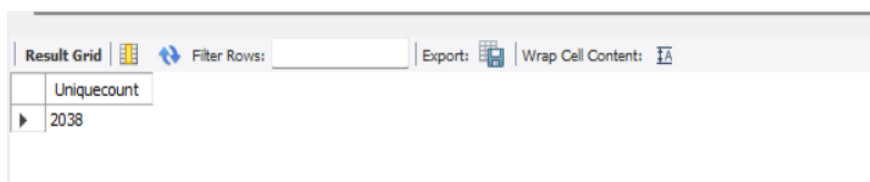
The screenshot shows a data table interface with a toolbar at the top containing 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. The table has a single column labeled 'year' with rows containing years from 1983 to 2008. A red dot is visible in the center of the table area. At the bottom, a tab labeled 'cars24 4' is visible.

year
1983
1991
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008

❖ To count the Unique name having column name as “Uniquecount”

Select count(distinct name)

As Uniquecount from cars24



The screenshot shows a data table interface with a toolbar at the top containing 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. The table has a single column labeled 'Uniquecount' with one row containing the value 2038.

Uniquecount
2038

WHERE and LOGICAL OPERATORS

❖ To find selling price below 220000 on years below 2007 Using “AND”

Select * from cars24

where year < 2007 and selling_price < 220000;

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
▶	Maruti 800 EX	2004	70000	220000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4
	Maruti Alto LX	2000	108000	206000	Petrol	Individual	Manual	Fourth & Above Owner	19.7	796	46.3	5
	Honda CR-V 2.0L 2WD AT	2006	125000	200000	Petrol	Individual	Automatic	Third Owner	13.1	1997	141.1	5
	Maruti Wagon R LX	2006	65000	198000	Petrol	Individual	Manual	Second Owner	18.9	998	67.1	5
	Hyundai Santro AT	2005	120000	190000	Petrol	Individual	Automatic	Second Owner	19.41	1458	91.5	5
	Maruti Wagon R LXI	2005	70000	188000	Petrol	Individual	Manual	Fourth & Above Owner	18.9	998	67.1	5
	Hyundai Santro LE	2002	35000	184000	Petrol	Individual	Manual	Second Owner	19.41	1458	91.5	5
	Maruti Zen LXI	2000	50000	180000	Petrol	Individual	Manual	Fourth & Above Owner	17.3	993	60	5
	Honda City 2017-2020 GXi	2006	200000	178500	Petrol	Individual	Manual	Third Owner	17.7	1497	78	5
	Maruti Zen LX	2003	58000	170000	Petrol	Individual	Manual	Third Owner	17.3	993	60	5
	Maruti Wagon R LXI	2006	90000	168000	Petrol	Individual	Manual	Second Owner	18.9	998	67.1	5
	Maruti Wagon R LXI	2003	55000	167000	Petrol	Individual	Manual	Second Owner	18.9	998	67.1	5
	Maruti Alto LX	2003	100000	164000	Petrol	Individual	Manual	Third Owner	19.7	796	46.3	5
	Honda City 1.5 EXi	2002	81000	161000	Petrol	Individual	Manual	Fourth & Above Owner	13	1493	100	5
	Maruti Swift 1.3 LXI	2005	105000	158107	Petrol	Individual	Manual	Second Owner	19.41	1458	91.5	5
	Hyundai Santro Xing XG	2004	70000	158000	Petrol	Individual	Manual	First Owner	19.41	1458	91.5	5
	Maruti Wagon R LXI	2005	150000	150000	Petrol	Individual	Manual	Third Owner	18.9	998	67.1	5

cars24 22

×

❖ To find selling price below 188000 or years below 2004 using “OR”

Select * from cars24

where year < 2004 or selling_price < 188000;

	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
	Honda Civic 1.8 S AT	2007	175000	218463	Petrol	Individual	Automatic	First Owner	12.9	1799	130	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 Zen Estilo VXi BSIV	2010	160000	200000	Petrol	Individual	Manual	First Owner	19	998	67.1	5
	Honda CR-V 2.0L 2WD AT	2006	125000	200000	Petrol	Individual	Automatic	Third Owner	13.1	1997	141.1	5
	Maruti Wagon R LX	2006	65000	198000	Petrol	Individual	Manual	Second Owner	18.9	998	67.1	5
	Maruti Alto LXi BSIII	2008	100000	195000	Petrol	Individual	Manual	Second Owner	19.7	796	46.3	5
	Hyundai Santro Xing GLS	2008	120000	191000	Petrol	Individual	Manual	First Owner	17.92	1086	62.1	5
	Hyundai Santro AT	2005	120000	190000	Petrol	Individual	Automatic	Second Owner	19.41	1458	91.5	5
	Maruti Wagon R LXI	2005	70000	188000	Petrol	Individual	Manual	Fourth & Above Owner	18.9	998	67.1	5
	Maruti Gypsy King Soft Top	1997	300000	186388	Petrol	Individual	Manual	Second Owner	14.8	1298	80	8
	Hyundai Santro LE	2002	35000	184000	Petrol	Individual	Manual	Second Owner	19.41	1458	91.5	5
	Maruti Zen Estilo LXI BS IV	2010	100000	180000	Petrol	Individual	Manual	Second Owner	19	998	67.1	5
	Maruti Zen LXI	2000	50000	180000	Petrol	Individual	Manual	Fourth & Above Owner	17.3	993	60	5
	Maruti Alto LX	2011	175000	175000	Petrol	Individual	Manual	Second Owner	19.7	796	46.3	5

❖ To find inverse of selling price below 188000 or years below 2004 using
"NOT"

Select * from cars24

where not year < 2004 or selling_price < 188000;

	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

❖ To find selling price between 100000 and 300000 using "BETWEEN"

Select * from cars24

where selling_price between 100000 and 300000;

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
▶	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 i20 1.2 Asta	2011	220000	220000	Petrol	Individual	Manual	Fourth & Above Owner	17	1197	80	5
	Honda Civic 1.8 S AT	2007	175000	218463	Petrol	Individual	Automatic	First Owner	12.9	1799	130	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 BSIV	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	2006	125000	200000	Petrol	Individual	Automatic	Third Owner	13.1	1997	141.1	5
	Maruti Alto LXI BSIII	2008	100000	195000	Petrol	Individual	Manual	Second Owner	19.7	796	46.3	5
	Hyundai Santro Xing GLS	2008	120000	191000	Petrol	Individual	Manual	First Owner	17.92	1086	62.1	5
	Hyundai Santro AT	2005	120000	190000	Petrol	Individual	Automatic	Second Owner	19.41	1458	91.5	5
	Maruti Gypsy King Soft Top	1997	300000	186388	Petrol	Individual	Manual	Second Owner	14.8	1298	80	8
	Maruti Zen Estilo LXI BS IV	2010	100000	180000	Petrol	Individual	Manual	Second Owner	19	998	67.1	5

❖ To find the seater type using “IN”

Select * from cars24

where seats in ('4','7');

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
▶	Maruti Ertiga BSIV VXI	2017	700000	227000	Petrol	Individual	Manual	First Owner	17.5	1373	91.1	7
	Maruti 800 EX	2004	70000	220000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4
	Honda BRV i-VTEC V MT	2016	725000	140000	Petrol	Individual	Manual	First Owner	15.4	1497	117.3	7
	Maruti Ertiga VXI	2013	450000	140000	Petrol	Individual	Manual	First Owner	16.02	1373	93.7	7
	Datsun GO Plus T	2017	200000	140000	Petrol	Individual	Manual	First Owner	19.02	1198	67.05	7
	Honda BR-V i-VTEC E MT	2017	595000	120000	Petrol	Individual	Manual	First Owner	15.4	1497	117.3	7
	Maruti Ertiga ZXI	2012	450000	120000	Petrol	Individual	Manual	Second Owner	16.02	1373	93.7	7
	Maruti 800 AC BSIII	2002	120000	120000	Petrol	Individual	Manual	First Owner	16.1	796	37	4
	Maruti 800 AC	2011	100000	120000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4
	Maruti 800 EX 5 Speed	2006	65000	120000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4
	Maruti 800 AC	1997	50000	120000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4
	Maruti 800 Std	2004	40000	120000	Petrol	Individual	Manual	First Owner	16.1	796	37	4
	Maruti 800 AC	1997	40000	120000	Petrol	Individual	Manual	First Owner	16.1	796	37	4
	Tata New Safari 4X2	2007	300000	110000	Petrol	Individual	Manual	Second Owner	12	2092	127	7
	Maruti Eeco 7 Seater St...	2011	180000	110000	Petrol	Individual	Manual	Second Owner	15.37	1196	73	7
	Maruti 800 Std	1997	50000	110000	Petrol	Individual	Manual	Second Owner	16.1	796	37	4
	Maruti 800 Std	2004	31504	110000	Petrol	Individual	Manual	Third Owner	16.1	796	37	4

❖ To find the seater type using “NOT IN”

Select * from cars24

where seats not in ('4','7');

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
	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
	Hyundai i20 1.2 Asta	2011	220000	220000	Petrol	Individual	Manual	Fourth & Above Owner	17	1197	80	5
	Honda Civic 1.8 S AT	2007	175000	218463	Petrol	Individual	Automatic	First Owner	12.9	1799	130	5
	Hyundai Verna XGI ABS (Petrol)	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 BSIV	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	2006	125000	200000	Petrol	Individual	Automatic	Third Owner	13.1	1997	141.1	5
	Maruti Wagon R LX	2006	65000	198000	Petrol	Individual	Manual	Second Owner	18.9	998	67.1	5
	Maruti Alto LXI BSIII	2008	100000	195000	Petrol	Individual	Manual	Second Owner	19.7	796	46.3	5

❖ To find specific string patterns using “LIKE” and “%”

Select * from cars24

where name LIKE 'R%';

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
▶	Renault KWID RXT	2015	210000	210000	Petrol	Individual	Manual	Second Owner	25.17	799	53.3	5
	Renault KWID 1.0 RXT Optional	2017	265000	90000	Petrol	Individual	Manual	First Owner	23.01	999	67	5
	Renault KWID RXT	2016	261000	90000	Petrol	Individual	Manual	First Owner	25.17	799	53.3	5
	Renault KWID 1.0 RXT BSIV	2019	220000	90000	Petrol	Individual	Manual	First Owner	23.01	999	67	5
	Renault KWID RXL	2016	220000	90000	Petrol	Individual	Manual	First Owner	25.17	799	53.3	5
	Renault KWID RXL	2016	260000	80000	Petrol	Individual	Manual	First Owner	25.17	799	53.3	5
	Renault KWID RXT	2016	300000	66693	Petrol	Dealer	Manual	First Owner	25.17	799	53.3	5
	Renault KWID 1.0 RXT Optional	2018	400000	60000	Petrol	Individual	Manual	First Owner	23.01	999	67	5
	Renault KWID 1.0 RXT Optional	2016	315000	60000	Petrol	Individual	Manual	Second Owner	23.01	999	67	5
	Renault KWID RXT	2016	315000	60000	Petrol	Individual	Manual	First Owner	25.17	799	53.3	5
	Renault KWID RXT	2017	300000	60000	Petrol	Individual	Manual	First Owner	25.17	799	53.3	5
	Renault KWID RXT	2015	300000	60000	Petrol	Individual	Manual	First Owner	25.17	799	53.3	5
	Renault KWID RXT Optional	2016	295000	60000	Petrol	Individual	Manual	First Owner	25.17	799	53.3	5
	Renault KWID RXT Optional	2016	275000	60000	Petrol	Individual	Manual	First Owner	25.17	799	53.3	5
	Renault KWID RXT	2016	260000	60000	Petrol	Individual	Manual	First Owner	25.17	799	53.3	5
	Renault KWID 1.0 RXT Optional	2016	235000	60000	Petrol	Individual	Manual	First Owner	23.01	999	67	5
	Renault KWID RXT	2016	240000	59300	Petrol	Individual	Manual	First Owner	25.17	799	53.3	5

Select * from cars24

where name LIKE '%a';

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
▶	Hyundai i20 1.2 Asta	2011	220000	220000	Petrol	Individual	Manual	Fourth & Above Owner	17	1197	80	5
	Hyundai i20 1.2 Asta	2011	300000	138000	Petrol	Individual	Manual	Third Owner	17	1197	80	5
	Hyundai i10 Magna	2010	150000	123278	Petrol	Individual	Manual	Second Owner	20.36	1197	78.9	5
	Hyundai i20 Magna	2013	345000	120000	Petrol	Individual	Manual	Second Owner	18.5	1197	82.85	5
	Hyundai i20 Magna	2010	200000	120000	Petrol	Individual	Manual	Third Owner	18.5	1197	80	5
	Hyundai i10 Era	2008	130000	120000	Petrol	Individual	Manual	Second Owner	19.81	1086	68.05	5
	Hyundai i20 Magna	2013	320000	110000	Petrol	Individual	Manual	First Owner	18.5	1197	82.85	5
	Hyundai i10 Era	2013	245000	110000	Petrol	Individual	Manual	Second Owner	19.81	1086	68.05	5
	Hyundai i10 Era	2011	210000	110000	Petrol	Individual	Manual	Second Owner	19.81	1086	68.05	5
	Hyundai i10 Magna	2008	195000	110000	Petrol	Individual	Manual	Second Owner	20.36	1197	78.9	5
	Hyundai i10 Magna	2011	190000	110000	Petrol	Individual	Manual	Third Owner	20.36	1197	78.9	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 i10 Magna	2010	150000	106000	Petrol	Individual	Manual	Third Owner	20.36	1197	78.9	5
	Hyundai i10 Magna	2012	250000	103000	Petrol	Individual	Manual	First Owner	20.36	1197	78.9	5
	Maruti Swift VXI Deca	2016	500000	100000	Petrol	Individual	Manual	First Owner	20.4	1197	81.8	5

❖ To find specific character pattern using “LIKE” and “_”

Select * from cars24

where name LIKE '%_a';

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
▶	Hyundai i20 1.2 Asta	2011	220000	220000	Petrol	Individual	Manual	Fourth & Above Owner	17	1197	80	5
	Hyundai i20 1.2 Asta	2011	300000	138000	Petrol	Individual	Manual	Third Owner	17	1197	80	5
	Hyundai i10 Magna	2010	150000	123278	Petrol	Individual	Manual	Second Owner	20.36	1197	78.9	5
	Hyundai i20 Magna	2013	345000	120000	Petrol	Individual	Manual	Second Owner	18.5	1197	82.85	5
	Hyundai i20 Magna	2010	200000	120000	Petrol	Individual	Manual	Third Owner	18.5	1197	80	5
	Hyundai i10 Era	2008	130000	120000	Petrol	Individual	Manual	Second Owner	19.81	1086	68.05	5
	Hyundai i20 Magna	2013	320000	110000	Petrol	Individual	Manual	First Owner	18.5	1197	82.85	5
	Hyundai i10 Era	2013	245000	110000	Petrol	Individual	Manual	Second Owner	19.81	1086	68.05	5
	Hyundai i10 Era	2011	210000	110000	Petrol	Individual	Manual	Second Owner	19.81	1086	68.05	5
	Hyundai i10 Magna	2008	195000	110000	Petrol	Individual	Manual	Second Owner	20.36	1197	78.9	5
	Hyundai i10 Magna	2011	190000	110000	Petrol	Individual	Manual	Third Owner	20.36	1197	78.9	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 i10 Magna	2010	150000	106000	Petrol	Individual	Manual	Third Owner	20.36	1197	78.9	5
	Hyundai i10 Magna	2012	250000	103000	Petrol	Individual	Manual	First Owner	20.36	1197	78.9	5
	Maruti Swift VXi Deca	2016	500000	100000	Petrol	Individual	Manual	First Owner	20.4	1197	81.8	5

Select * from cars24

where name LIKE 'a_%';

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
▶	Audi A4 1.8 TFSI	2010	730000	55000	Petrol	Individual	Automatic	Second Owner	12.3	1781	163.2	5
	Audi A6 35 TFSI Matrix	2019	6523000	23600	Petrol	Dealer	Automatic	Test Drive Car	15.26	1798	187.74	5
	Audi A6 35 TFSI Matrix	2019	5923000	11500	Petrol	Dealer	Automatic	Test Drive Car	15.26	1798	187.74	5
	Audi A3 40 TFSI Premium	2017	1689999	8000	Petrol	Dealer	Automatic	First Owner	16.6	1798	177.5	5
	Audi A6 35 TFSI Matrix	2019	6223000	7800	Petrol	Dealer	Automatic	Test Drive Car	15.26	1798	187.74	5
	Audi Q3 2.0 TDI Quattro Premium Plus	2014	1200000	230000	Diesel	Individual	Automatic	First Owner	15.73	1968	174.33	5
	Ashok Leyland Stile LE	2013	300000	200000	Diesel	Individual	Manual	Second Owner	20.07	1461	75	8
	Audi Q5 2.0 TDI	2011	1300000	120000	Diesel	Individual	Automatic	First Owner	12.8	1968	167.6	5
	Audi Q7 3.0 TDI Quattro	2009	1025000	120000	Diesel	Individual	Automatic	Third Owner	12.07	2967	241.4	7
	Audi Q7 3.0 TDI Quattro	2010	1750000	110000	Diesel	Individual	Automatic	Second Owner	12.07	2967	241.4	7
	Audi A4 2.0 TDI 177 Bhp Premium Plus	2013	1200000	110000	Diesel	Individual	Automatic	First Owner	17.11	1968	174.33	5
	Audi Q5 45 TDI quattro Technology	2015	2700000	105000	Diesel	Dealer	Automatic	Second Owner	13.22	2967	241.4	5
	Ambassador Classic 2000 DSZ AC PS	1994	99000	100000	Diesel	Individual	Manual	Second Owner	12.8	1995	52	5
	Audi Q7 3.0 TDI Quattro	2009	810000	98000	Diesel	Individual	Automatic	Fourth & Abo...	12.07	2967	241.4	7
	Ambassador CLASSIC 1500 DSL AC	2000	75000	90000	Diesel	Individual	Manual	Second Owner	12.8	1489	35.5	5
	Ambassador Grand 2000 DSZ PW CL	2008	200000	80000	Diesel	Individual	Manual	Third Owner	13.5	1995	52	5
	Audi Q5 3.0 TDI Quattro	2014	1850000	76121	Diesel	Individual	Automatic	First Owner	13.22	2967	241.4	5

❖ To find strings using “REGEXP”

Select * from cars24

where name REGEXP '^audi';

"""

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	seats
▶	Audi A4 1.8 TFSI	2010	730000	55000	Petrol	Individual	Automatic	Second Owner	12.3	1781	163.2	5
	Audi A6 35 TFSI Matrix	2019	6523000	23600	Petrol	Dealer	Automatic	Test Drive Car	15.26	1798	187.74	5
	Audi A6 35 TFSI Matrix	2019	5923000	11500	Petrol	Dealer	Automatic	Test Drive Car	15.26	1798	187.74	5
	Audi A3 40 TFSI Premium	2017	1689999	8000	Petrol	Dealer	Automatic	First Owner	16.6	1798	177.5	5
	Audi A6 35 TFSI Matrix	2019	6223000	7800	Petrol	Dealer	Automatic	Test Drive Car	15.26	1798	187.74	5
	Audi Q3 2.0 TDI Quattro Premium Plus	2014	1200000	230000	Diesel	Individual	Automatic	First Owner	15.73	1968	174.33	5
	Audi Q5 2.0 TDI	2011	1300000	120000	Diesel	Individual	Automatic	First Owner	12.8	1968	167.6	5
	Audi Q7 3.0 TDI Quattro	2009	1025000	120000	Diesel	Individual	Automatic	Third Owner	12.07	2967	241.4	7
	Audi Q7 3.0 TDI Quattro	2010	1750000	110000	Diesel	Individual	Automatic	Second Owner	12.07	2967	241.4	7
	Audi A4 2.0 TDI 177 Bhp Premium Plus	2013	1200000	110000	Diesel	Individual	Automatic	First Owner	17.11	1968	174.33	5
	Audi Q5 45 TDI quattro Technology	2015	2700000	105000	Diesel	Dealer	Automatic	Second Owner	13.22	2967	241.4	5
	Audi Q7 3.0 TDI Quattro	2009	810000	98000	Diesel	Individual	Automatic	Fourth & Abo...	12.07	2967	241.4	7
	Audi Q5 3.0 TDI Quattro	2014	1850000	76131	Diesel	Individual	Automatic	First Owner	13.22	2967	241.4	5
	Audi Q5 3.0 TDI Quattro	2014	1850000	76131	Diesel	Individual	Automatic	First Owner	13.22	2967	241.4	5
	Audi A3 35 TDI Premium Plus	2017	2600000	70000	Diesel	Individual	Automatic	First Owner	20.38	1968	143	5
	Audi Q7 3.0 TDI Quattro Premium Plus	2012	1850000	70000	Diesel	Individual	Automatic	First Owner	12.07	2967	241.4	7
	Audi Q7 3.0 TDI Quattro	2014	3000000	65000	Diesel	Individual	Automatic	First Owner	12.07	2967	241.4	7

❖ To limit the result using “LIMIT”

Select selling_price

from cars24

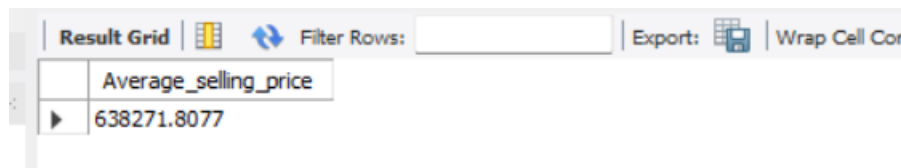
LIMIT 10;

	selling_price
▶	550000
	194000
	229999
	220000
	550000
	500000
	700000
	220000
	70000
	175000

❖ To find the Average, Max, Min Selling price using AGGREGATORS

Select avg(selling_price) as Average_selling_price

from cars24;

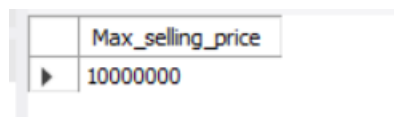


The screenshot shows a database query result grid. The header row is labeled 'Average_selling_price'. The first data row shows the value '638271.8077'. The interface includes a 'Result Grid' tab, a 'Filter Rows' input field, and an 'Export' button.

Average_selling_price
638271.8077

Select max(selling_price) as Max_selling_price

from cars24;



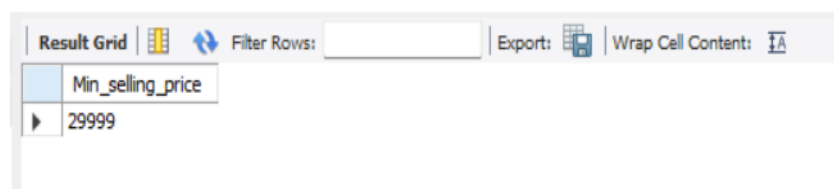
The screenshot shows a database query result grid. The header row is labeled 'Max_selling_price'. The first data row shows the value '10000000'. The interface includes a 'Result Grid' tab and a 'Filter Rows' input field.

Max_selling_price
10000000

Select min(selling_price) as Min_selling_price

from cars24;

•



The screenshot shows a database query result grid. The header row is labeled 'Min_selling_price'. The first data row shows the value '29999'. The interface includes a 'Result Grid' tab, a 'Filter Rows' input field, and a 'Wrap Cell Content' button.

Min_selling_price
29999

❖ To find number of cars using different types of Fuel using “COUNT” and “GROUPBY”

Select fuel, Count(*) AS Number_of_cars from
cars24

Group by fuel;

	fuel	Number_of_cars
▶	Petrol	3631
	LPG	38
	Diesel	4402
	CNG	57

❖ To find the count of owners using “COUNT” and “GROUPBY” and “ORDERBY”

Select owner, Count(*) as totalcount from cars24

Group by owner

Order by 2 desc;

	owner	totalcount
▶	First Owner	5289
	Second Owner	2105
	Third Owner	555
	Fourth & Above Owner	174
	Test Drive Car	5

❖ To find max driven kilometers using “sub queries” since km_driven can be dynamic

select max(km_driven) from cars24 as max_kmdriven;

select * from cars24

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

```
48
49 • select * from cars24
50 where km_driven = (select max(km_driven) from cars24 as max_kmdriven);
51
52
53
54
```

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

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

max(km_driven)
1500000

Result 53