



"2nd Hand Cars Sales Analysis" (CarDekho.com)

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GitHub link - https://github.com/Sandeshpatidar99/SQL-car_dekho-sales-analysis

Creating Database and loading full table:

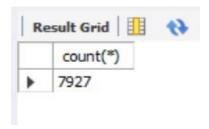
- create database cars;
- select * from car_dekho;

n	ne	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mile
Maruti Alto 800 LXI Opt		2023	410000	10000	Petrol	Individual	Manual	First Owner	19.0
d	da Slavia 1.0 TSI Ambition	2023	1350000	10000	Petrol	Individual	Manual	First Owner	14.0
N	V 3 Series Gran Limousine 320Ld Luxury Line	2023	5800000	1000	Diesel	Dealer	Automatic	First Owner	18.1
Z	ZS EV Exclusive	2023	2650000	10000	Electric	Dealer	Automatic	First Owner	32.5
a	a Punch Adventure	2023	715000	10000	Petrol	Individual	Manual	First Owner	12.1
u	uti S-Presso VXi Plus	2023	450000	30171	Petrol	Individual	Manual	First Owner	19.0
u	uti S-Presso LXi	2022	425000	1994	Petrol	Dealer	Manual	First Owner	19.4
ır	ndai Creta SX Turbo	2022	1895000	22000	Petrol	Individual	Automatic	First Owner	12.1
lā	ault Kiger RXT AMT Opt DT	2022	842000	6424	Petrol	Individual	Automatic	First Owner	14.0
lā	ault KWID CLIMBER	2022	567000	5148	Petrol	Dealer	Manual	First Owner	18.1
ni	indra XUV300 W8 Diesel Sunroof	2022	1197000	5030	Diesel	Individual	Manual	Second O	32.5
ni	indra XUV700 AX5 Diesel AT	2022	2275000	28000	Diesel	Individual	Automatic	First Owner	12.1
lē	ault Triber RXT	2022	800000	10000	Petrol	Individual	Manual	Second O	21.0
č	ault Triber RXT	2022	800000	100	000	00 Petrol	00 Petrol Individual	00 Petrol Individual Manual	00 Petrol Individual Manual Second O

Q.1 What is total count of all cars available?

Query

select count(*) from car_dekho;

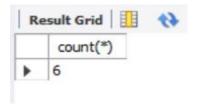


Q.2 How many cars of year 2023 are available?

Query

```
select count(*) from car_dekhowhere year = 2023;
```

Output



Q.3 How many cars of year 2020, 2021 and 2022 are available?

Query

```
    select year, count(*) from car_dekho
where year in (2020,2021,2022)
    group by year;
```

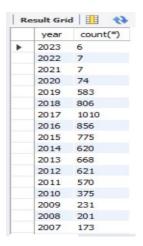


Q.4 Total no of cars year wise?

Query

 select year, count(*) from car_dekho group by year;

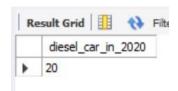
Output



Q.5 How many diesel cars of year 2020 are there?

Query

select count(*) as diesel_car_in_2020 from car_dekho
 where year = 2020 and fuel = 'Diesel';

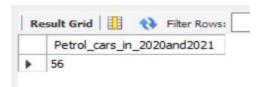


Q.6 How many petrol cars of year 2020 and 2021 are there?

Query

```
    select count(*) as Petrol_cars_in_2020and2021 from car_dekho
where year in (2020,2021) and fuel = 'Petrol';
```

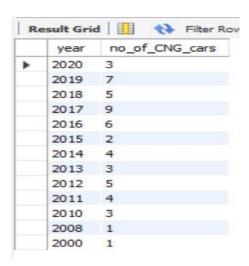
Output



Q.7 How many no. of CNG cars in each year?

Query

```
select year, count(*) as no_of_CNG_cars from car_dekho
where fuel = 'CNG'
group by year;
```



Q.8 In which years the number of cars are more than 100?

Query

 select year as years_with_more_than_100_cars, count(*) as no_of_cars from car_dekho group by year having count(*)>100;

	years_with_more_than_100_cars	no_of_cars
١	2019	583
	2018	806
	2017	1010
	2016	856
	2015	775
	2014	620
	2013	668
	2012	621
	2011	570
	2010	375
	2009	231
	2008	201
	2007	173
	2006	102

Q.9 Show names of all the automatic petrol cars between year 2020 to 2023 which have been driven less than 10,000 Km?

Query

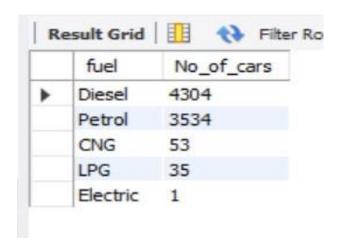
• select name from car_dekho where year between 2020 and 2023 and fuel = 'Petrol' and transmission = 'Automatic' and km_driven < 10000;</p>

	name							
١	Hyundai Grand i 10 Nios AMT Sportz							
	Maruti Ignis Zeta AMT							
	Maruti Ignis Zeta AMT							
	Maruti Swift AMT VXI							
	MG Hector Sharp DCT Dualtone							
	Tata Nexon 1.2 Revotron XZA Plus							

Q.10 Show all total number of cars of each fuel type, with the maximum number showing first?

Query

 select fuel, count(*) as No_of_cars from car_dekho group by fuel order by No_of_cars desc;



Q.11 How many fuel efficient cars are there of year 2020 to 2023 whose selling price is less than 5 lakhs? (cars with mileage greater than 18 is considered fuel efficient)

Query

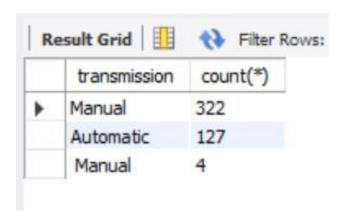
select name from car_dekho
 where year in (2020,2021,2022,2023)
 and selling_price < 500000
 and mileage > 18;

	name						
•	Maruti Alto 800 LXI Opt						
	Maruti S-Presso VXi Plus						
	Maruti S-Presso LXi						
	Maruti Alto 800 LXI Opt						
	Datsun GO T Option						
	Datsun RediGO 1.0 S						
	Ford Freestyle Titanium Petrol BSIV						
	Hyundai Grand i 10 Sportz						
	Hyundai Xcent 1.2 VTVT E						
	Mahindra KUV 100 D75 K6 Plus						
	Maruti Alto 800 LXI						
	Maruti Alto 800 LXI						
	Maruti Alto 800 LXI CNG						
	Maruti Alto 800 VXI						
	Maruti Alto 800 VXI						
	Maruti Alto 800 VXI Plus						
	Maruti Alto K10 VXI						

Q.12 How many Maruti cars of different transmissions are available whose model should not be of before 2018?

Query

• select transmission, count(*) from car_dekho where year between 2018 and 2023 and name like '%Maruti%' group by transmission order by count(*) desc;



Q.13 Show all the details of all luxury cars?

Query

```
• select * from car_dekho
where name like '%Audi%'
or name like '%BMW%'
or name like '%Volvo%'
or name like '%Lexus%'
or name like '%Rover%'
or name like '%Mercedes%';
```

	Name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mil ^
,	BMW 3 Series Gran Limousine 320Ld Luxury Line	2023	5800000	1000	Diesel	Dealer	Automatic	First Owner	18.
	BMW X7 xDrive 30d DPE	2020	7200000	5000	Diesel	Individual	Automatic	First Owner	13.
	Audi A6 35 TFSI Matrix	2019	6223000	7800	Petrol	Dealer	Automatic	Test Drive Car	15.
	Audi A6 35 TFSI Matrix	2019	5923000	11500	Petrol	Dealer	Automatic	Test Drive Car	15.
	Audi A6 35 TFSI Matrix	2019	6523000	23600	Petrol	Dealer	Automatic	Test Drive Car	15.
	BMW 5 Series 520d Luxury Line	2019	5200000	10000	Diesel	Dealer	Automatic	First Owner	18.
	BMW 5 Series 520d Luxury Line	2019	5200000	10000	Diesel	Dealer	Automatic	First Owner	18.
	BMW X4 M Sport X xDrive20d	2019	5800000	7500	Diesel	Dealer	Automatic	First Owner	16.
	BMW X4 M Sport X xDrive20d	2019	5400000	7500	Diesel	Dealer	Automatic	First Owner	16.
	BMW X4 M Sport X xDrive20d	2019	5500000	8500	Diesel	Dealer	Automatic	First Owner	16.
	BMW X4 M Sport X xDrive20d	2019	5400000	7500	Diesel	Dealer	Automatic	First Owner	16.
	BMW X4 M Sport X xDrive20d	2019	5500000	8500	Diesel	Dealer	Automatic	First Owner	16.
	BMW X4 M Sport X xDrive20d	2019	5400000	7500	Diesel	Dealer	Automatic	First Owner	16.
	BMW X4 M Sport X xDrive20d	2019	5500000	8500	Diesel	Dealer	Automatic	First Owner	16.
	BMW X4 M Sport X xDrive20d	2019	5400000	7500	Diesel	Dealer	Automatic	First Owner	16.
	BMW X4 M Sport X xDrive20d	2019	5500000	8500	Diesel	Dealer	Automatic	First Owner	16.
					,				>

Q.14 Show all the manual transmission cars of year between 2018 to 2023 whose owner is first owner and which has engine of < 1000 CC?

Query

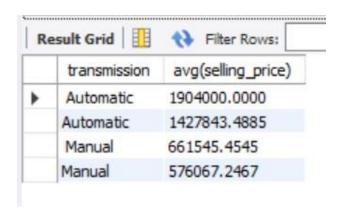
```
• select name, year from car_dekho
where year between 2018 and 2023
and transmission = 'Manual'
and owner = 'First Owner'
and engine like '____CC%';
```

	name	year
•	Datsun RediGO 1.0 S	2020
	Maruti Alto 800 LXI	2020
	Maruti Alto 800 LXI	2020
	Maruti Alto 800 LXI CNG	2020
	Maruti Alto 800 VXI	2020
	Maruti Alto 800 VXI	2020
	Maruti Alto 800 VXI Plus	2020
	Maruti Alto K10 VXI	2020
	Maruti Celerio VXI	2020
	Maruti Celerio ZXI	2020
	Volkswagen Polo 1.0 T	2020
	Datsun RediGO 1.0 T O	2019
	Datsun RediGO A	2019
	Datsun RediGO SV 1.0	2019
	Maruti Alto K10 LXI CNG	2019
	Maruti Alto K10 VXI	2019
	Maruti Alto K10 VXI	2019

Q.15 Show the average price of petrol cars of different transmissions of year 2018 to 2023?

Query

• select transmission, avg(selling_price) from car_dekho where year between 2018 and 2023 and fuel = 'Petrol' group by transmission order by avg(selling_price) desc;



End