My SQL PROJECT
Second Hand Car Dealer Analysis

- Chandra

About project

This project aims to explore the Second-Hand Car Dealer market to understand the best-selling car models, customer preferences, pricing trends, and the factors influencing purchasing decisions. The analysis will focus on identifying high-performing vehicle categories, assessing sales trends over time, and examining customer behavior. The goal is to provide insights that can help optimize sales strategies, improve inventory management, and enhance customer satisfaction for better business outcomes.

Questions about Second Hand Car Dealer

1. Read cars data
2. Total cars : To get a count of total revenues
3. The manager asked the employee how many cars will be available in 2023 ?
4. The manager asked the employee how many cars is available in 2020,2021,2023,
5. Client asked me to print total of all cars by year . I don’t see all the details,

6. Client asked me to car dealer agent How many diesel cars will there be in 2020 ?

7. Client Requested a car dealer agent How many petrol cars will their be in 2020.

8. Manager said there were more than 100 cars in a given year. Which year had more than 100 cars ?

9. The manager said to the employee print All cars details between 2015 & 2023.

10. The manager told the employee to given a print of all the fuel cars (petrol , diesel , CNG) come by all year

```
-- q1.  Read cars data --

select * from cars_dtl;
```

Name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine	max_power	torque	seats
Maruti Alto 800 LXI Opt	2023	410000	10000	Petrol	Individual	Manual	First Owner	19.03 kmpl	999 CC	71.01bhp	96Nm	5
Skoda Slavia 1.0 TSI Ambition	2023	1350000	10000	Petrol	Individual	Manual	First Owner	14.08 kmpl	1956 CC	167.67bhp	350nm	5
BMW 3 Series Gran Limousine 320Ld Luxury Line	2023	5800000	1000	Diesel	Dealer	Automatic	First Owner	18.15 kmpl	998 CC	118.35bhp	172Nm	5
MG ZS EV Exclusive	2023	2650000	10000	Electric	Dealer	Automatic	First Owner	32.52 kmpl	998 CC	58.33bhp	78Nm	5
Tata Punch Adventure	2023	715000	10000	Petrol	Individual	Manual	First Owner	12.15 kmpl	1451 CC	141bhp	250Nm	5
Maruti S-Presso VXi Plus	2023	450000	30171	Petrol	Individual	Manual	First Owner	19.03 kmpl	999 CC	71.01bhp	96Nm	5
Maruti S-Presso LXi	2022	425000	1994	Petrol	Dealer	Manual	First Owner	19.47 kmpl	999 CC	113.98bhp	178Nm	5
Hyundai Creta SX Turbo	2022	1895000	22000	Petrol	Individual	Automatic	First Owner	12.15 kmpl	1997 CC	296.3bhp	400Nm	5
Renault Kiger RXT AMT Opt DT	2022	842000	6424	Petrol	Individual	Automatic	First Owner	14.08 kmpl	1956 CC	167.67bhp	350nm	5

```sql
-- Q2.  Total cars : To get a count of total revenues--

select count(selling_price) from cars_dtl;
```

count(selling_price)
7927

```sql
-- Q3.  The manager asked the employee how many cars will be available in 2023 ?--

select count(*) as cars_avaliable from cars_dtl
where year= 2023;
```

cars_avaliable
6

```sql
-- Q4.  The manager asked the employee how many cars is available  in 2020,2021,2023,---

select count(*) as cars_avaliable from cars_dtl
where year in ( 2023,2021,2023);
```

cars_avaliable
13

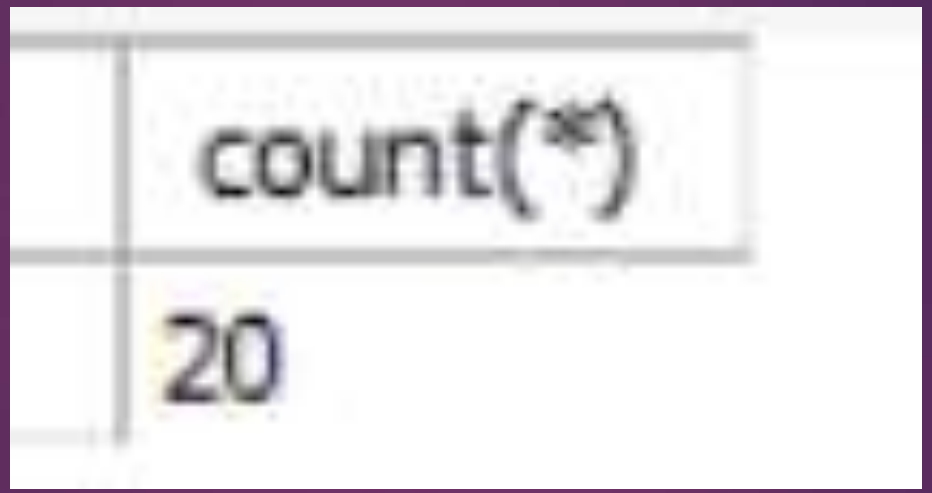
```
-- Q5.  Client asked me to print total of all cars by year . I don't see all the details,

select year,  count(*) from cars_dtl
group by year;
```

year	count(*)
2023	6
2022	7
2021	7
2020	74
2019	583
2018	806
2017	1010
2016	856
2015	775

```sql
-- Q6.  Client asked me to car dealer agent , How many diesel cars will there be in 2020 ?

select  count(*)  from cars_dtl
where fuel = "Diesel" and
year = 2020;
```



count(*)
20

```sql
-- Q7.  Client Requested a car dealer agent How many petrol cars will their be in 2020.

select  count(*)  from cars_dtl
where fuel = "petrol" and
year = 2020;
```

count(*)
51

```
-- Q8.  Manager said there were more than 100 cars in a given year. Which year had more than 100 cars?--

select year , count(*) as cars from cars_dtl
group by year
order by count(*) desc;
```

year	cars
2017	1010
2016	856
2018	806
2015	775
2013	668
2012	621
2014	620
2019	583
2011	570

```
-- Q9.  The manager said to the employee print All cars details between  2015 & 2023  --

select  * from cars_dtl
where year between 2015 and 2023;
```

Name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine	max_power	torque	seats
Maruti Alto 800 LXI Opt	2023	410000	10000	Petrol	Individual	Manual	First Owner	19.03 kmpl	999 CC	71.01bhp	96Nm	5
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```sql
-- Q10. The manager told the employee to given a print of all the fuel cars (petrol , diesel , CNG ) come by all year

select year,fuel, count(*) from cars_dtl
group by year,fuel;
```

year	fuel	count(*)
2023	Petrol	4
2023	Diesel	1
2023	Electric	1
2022	Petrol	5
2022	Diesel	2
2021	Diesel	2
2021	Petrol	5
2020	Diesel	20
2020	Petrol	51