## \_\_\_CARS\_\_\_\_



BY - HARSHIT CHAUBEY





## Introduction

Welcome to the "MySQL Queries for Pre-Owned Cars Analysis" project, created by Harshit Chaubey. This project utilizes MySQL queries to analyze preowned car data stored in the car\_details table. In today's automotive market, understanding the dynamics of pre-owned car sales is crucial. Through MySQL queries, we aim to extract valuable insights that illuminate key aspects of the pre-owned car market.



## Y KEY AREA OF FOCUS

# ATTATTEDITES ITT

Data Retrieval: Using SELECT queries to retrieve and display relevant information from the car\_details table, including car models, prices, mileage, and more.

#### **Data Filtering and**

Sorting: Applying WHERE and ORDER BY clauses to filter and sort pre-owned car data based on specific criteria such as price range, mileage, and manufacturing year.

#### <u>Data Aggregation:</u>

Utilizing SQL aggregate functions such as COUNT(), SUM(), and AVG() to aggregate and summarize data, enabling insights into market trends and patterns.

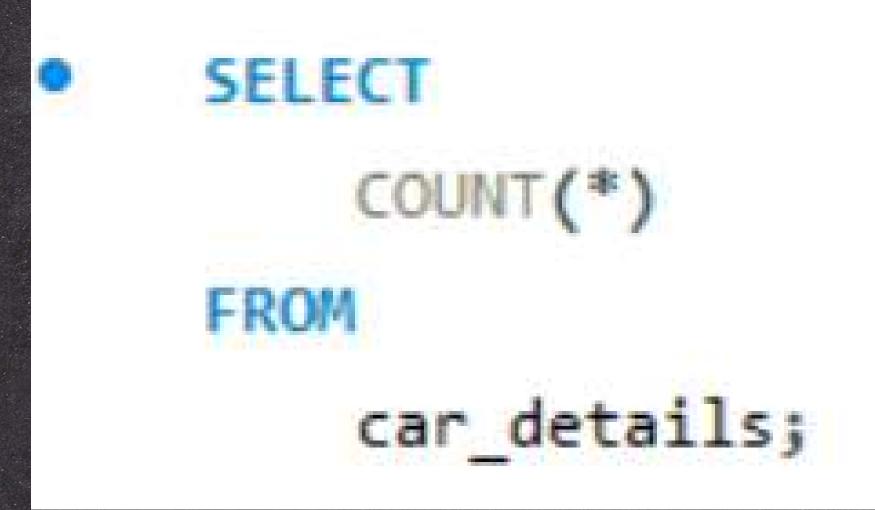
# \_\_\_QUERIES\_\_\_

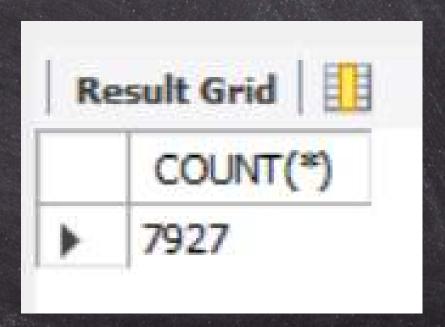
- 1. Total Cars: To get a count of total records.
- 2. How many cars is available in 2020,2021,2022 and 2023?

- 3. Total of all cars by year with highest number of cars.
- 4. How many diesel and petrol cars will be there in 2020?

- 5. Display all the fuel cars (petrol, diesel and CNG) come by all year.
- <u>6. Which year had</u> more than 100 cars?
- 7. Count all the car details between 2015 and 2023.

## 1. Total Cars: To get a count of total records.





## 2. How many cars is available in 2020,2021,2022 and 2023?

```
SELECT
    year, COUNT(*) AS no of cars
FROM
    car_details
WHERE
    YEAR IN (2020 , 2021, 2022, 2023)
GROUP BY year
ORDER BY no of cars DESC;
```

Re	esult Grid	d   III 🙌 Filte
	year	no_of_cars
>	2020	74
	2022	7
	2021	7
	2023	6

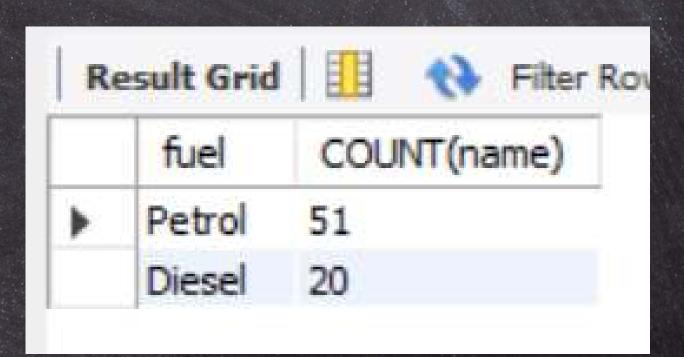
#### 3. Total of all cars by year with highest number of cars.

```
SELECT
    year, COUNT(name) AS total cars
FROM
    car details
GROUP BY year
ORDER BY total cars DESC;
```

Result Grid			43	F
	year	total_	cars	
<b>&gt;</b>	2017	1010		
	2016	856		
	2018	806		
	2015	775		
	2013	668		
	2012	621		
	2014	620		
	2019	583		
	2011	570		
	2010	375		
	2009	231		
	2008	201		
	2007	173		

#### 4. How many diesel and petrol cars will be there in 2020?

```
SELECT
    fuel, COUNT(name)
FROM
    car details
WHERE
    fuel IN ('diesel', 'petrol')
        AND year = '2020'
GROUP BY fuel
ORDER BY fuel DESC;
```



## 5. Display all the fuel cars (petrol, diesel and CNG) come by all year.

```
fuel, COUNT(*) AS no_of_cars
FROM

car_details
GROUP BY fuel

ORDER BY no_of_cars DESC;
```

Result Grid		Filter F
	fuel	no_of_cars
Þ	Diesel	4304
	Petrol	3534
	CNG	53
	LPG	35
	Electric	1

#### 6. Which year had more than 100 cars?

```
SELECT
    year, max cars
FROM
    (SELECT
        year, COUNT(*) AS max cars
    FROM
        car details
    GROUP BY year
   ORDER BY max cars DESC) AS a
WHERE
    max cars >= 100;
```

Result Grid					
	year	max_cars			
•	2017	1010			
	2016	856			
	2018	806			
	2015	775			
	2013	668			

### 7. Count all the car details between 2015 and 2023.

SELECT COUNT(\*) AS total cars FROM car details WHERE year BETWEEN 2015 AND 2023;



## Conclusion

This project serves as an in-depth exploration of MySQL queries applied to pre-owned car sales analysis. Through the expertise of Harshit Chaubey in MySQL querying and analysis, we aim to provide actionable insights that contribute to informed decision-making in the competitive landscape of the pre-owned car market.

THANK