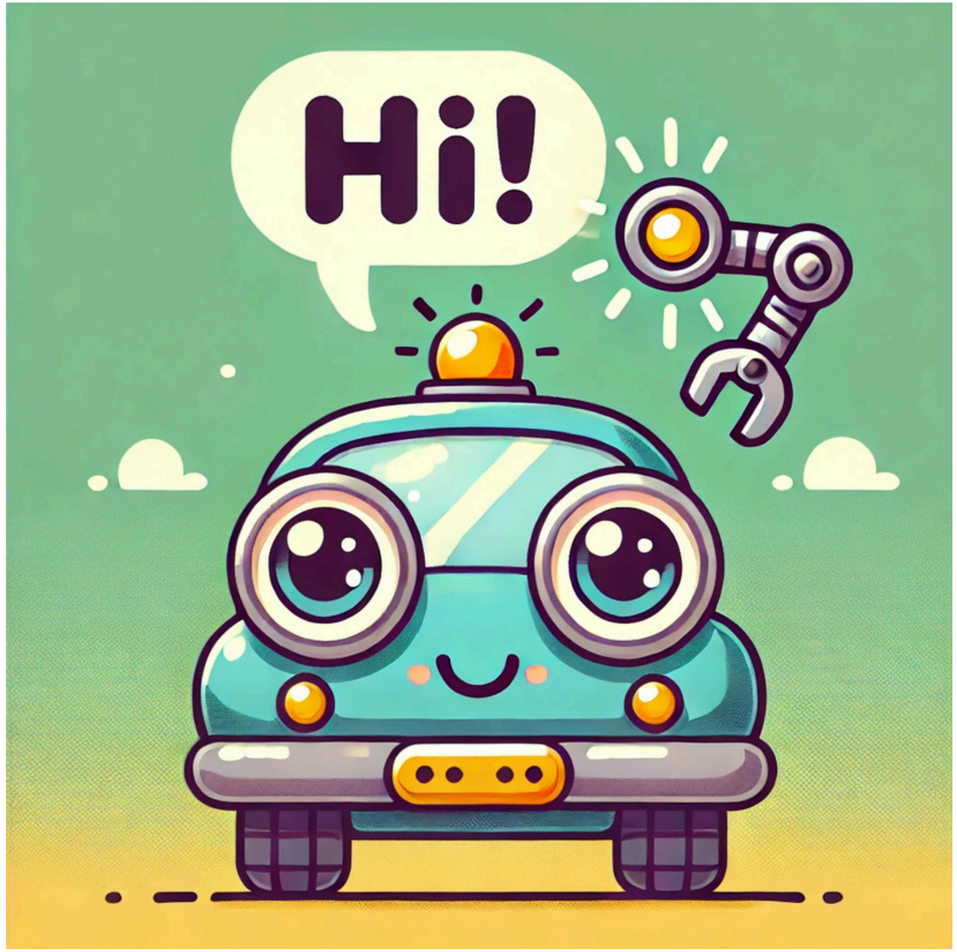
Car Sales Data Analysis Using

The DataSet Fields Are

Car_id ,
Date ,
Customer_Name,
Gender ,
Annual_Income ,
Dealer_Name ,
Company ,
Model ,
Engine ,
Transmission,
Color ,
Price ,
Dealer_No ,
Body_Style ,
Phone ,
Dealer_Region .



1.Show unique car models in the dataset?

```sql
SELECT DISTINCT Model FROM mytable;
```

2.Find the total number of cars sold ?

```sql
SELECT COUNT(*) AS Total_Cars_Sold FROM mytable;
```

3.List the number of cars sold per dealer

```sql
SELECT Dealer_Name, COUNT(*) AS Cars_Sold
FROM mytable
GROUP BY Dealer_Name
ORDER BY Cars_Sold DESC;
```

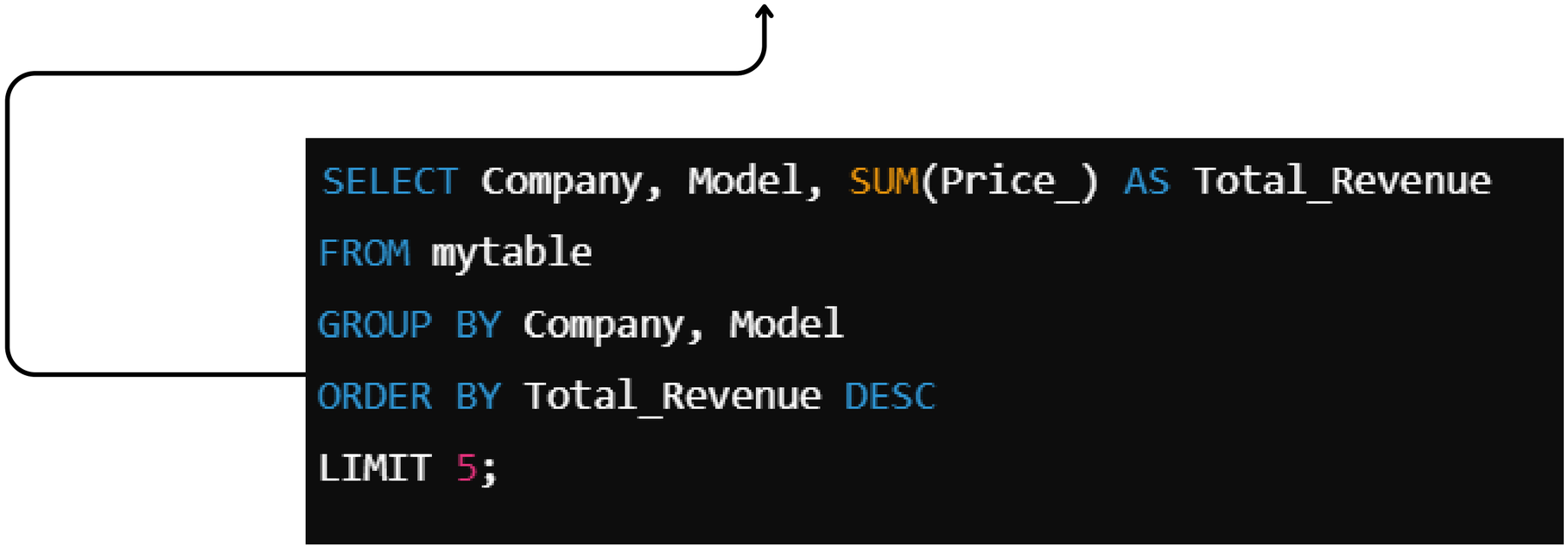
4.What is the total revenue generated by each dealer?

```sql
SELECT Dealer_Name, SUM(Price_) AS Total_Revenue
FROM mytable
GROUP BY Dealer_Name
ORDER BY Total_Revenue DESC;
```

5.Find the total revenue generated from car sales?

```sql
SELECT SUM(Price_) AS Total_Revenue FROM mytable;
```

6 List the top 5 combinations of Company & Model that generated the highest revenue?



```sql
SELECT Company, Model, SUM(Price_) AS Total_Revenue
FROM mytable
GROUP BY Company, Model
ORDER BY Total_Revenue DESC
LIMIT 5;
```

7 Find the top-selling color for each body style?

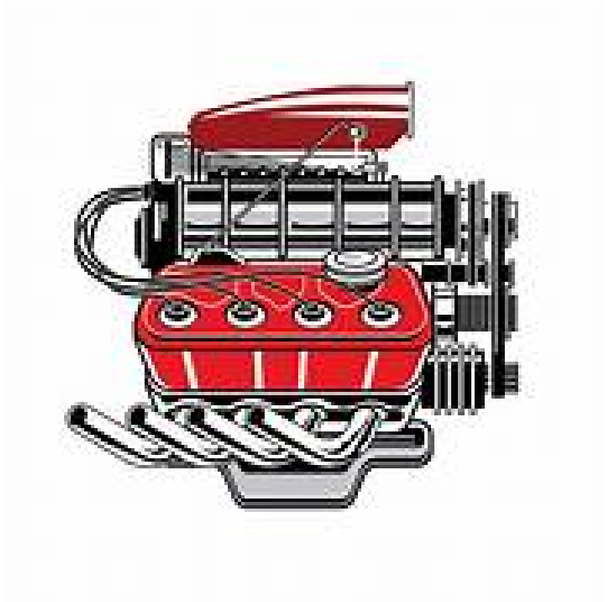
```sql
SELECT Body_Style, Color, COUNT(*) AS Color_Count
FROM mytable
GROUP BY Body_Style, Color
HAVING Color_Count = (
    SELECT MAX(Color_Count)
    FROM (SELECT Body_Style, Color, COUNT(*) AS Color_Count
          FROM mytable
          GROUP BY Body_Style, Color) AS subquery
    WHERE subquery.Body_Style = mytable.Body_Style
);
```

8 Find the percentage of male vs female customers who purchased cars?

```sql
SELECT Gender, COUNT(*) * 100.0 / (SELECT COUNT(*) FROM mytable) AS Percentage
FROM mytable
GROUP BY Gender;
```

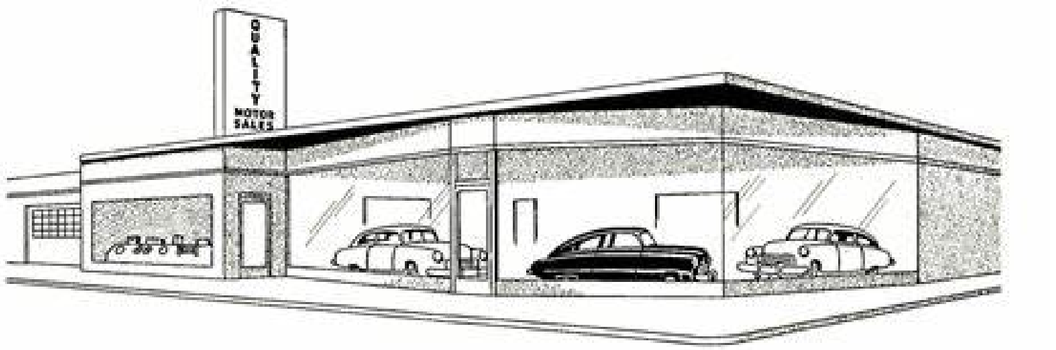
9. What is the most popular engine type based on the number of sales?

```sql
SELECT Engine, COUNT(*) AS Sales_Count
FROM mytable
GROUP BY Engine
ORDER BY Sales_Count DESC
LIMIT 1;
```



10.Find the customer with the highest purchase amount in each dealer region?

```sql
WITH RankedCustomers AS (
    SELECT Dealer_Region, Customer_Name, SUM(Price_) AS Total_Spent,
           RANK() OVER (PARTITION BY Dealer_Region ORDER BY SUM(Price_) DESC) AS Rank
    FROM mytable
    GROUP BY Dealer_Region, Customer_Name
)
SELECT Dealer_Region, Customer_Name, Total_Spent
FROM RankedCustomers
WHERE Rank = 1;
```



11.Find the most expensive car sold in each dealer region?

```sql
WITH RankedCars AS (
    SELECT Dealer_Region, Model, Price_,
           RANK() OVER (PARTITION BY Dealer_Region ORDER BY Price_ DESC) AS Rank
    FROM mytable
)
SELECT Dealer_Region, Model, Price_
FROM RankedCars
WHERE Rank = 1;
```

12.Rank dealers by their total revenue and show the percentage difference from the top dealer?

```sql
WITH DealerRevenue AS (
    SELECT Dealer_Name, SUM(Price) AS Total_Revenue
    FROM mytable
    GROUP BY Dealer_Name
), RankedDealers AS (
    SELECT Dealer_Name, Total_Revenue,
           RANK() OVER (ORDER BY Total_Revenue DESC) AS Rank,
           (Total_Revenue / MAX(Total_Revenue) OVER()) * 100 AS Percentage_Of_Top,
           COUNT(*) OVER() AS Total_Dealers
    FROM DealerRevenue
)
SELECT * FROM RankedDealers;
```

13.Calculate the total revenue generated per company and rank them from highest to lowest?

```sql
SELECT Company, SUM(Price_) AS Total_Revenue
FROM mytable
GROUP BY Company
ORDER BY Total_Revenue DESC;
```

14.Average annual income of customers who bought SUVs.

```sql
SELECT AVG(Annual_Income) AS Avg_Income_SUV_Customers
FROM mytable
WHERE Body_Style = 'SUV';
```

https://www.linkedin.com/in/t-v-n-ganesh28/

https://github.com/Ganesh200528/Car-Sales-Data-Analysis-Using-MySQL.git