## **CAR SALES SQL QUERIES**

#### A. KPI's

- 1) Sales Overview:
  - a. Total Sales:

b. YTD Total Sales:

c. PYTD Total Sales:

d. Month-to-Date(MTD) Total Sales:

- 2) Average Price Analysis
  - a. Total Average Price:

b. YTD Average Price:

```
select sum(Price) / count(Car_id) as YTD_Avg_Price
from car_data
where year(Date) = 2023

PYTD_Avg_Price
1 28214
```

c. PYTD Average Price:

```
select sum(Price) / count(Car_id) as PYTD_Avg_Price
from car_data
where year(Date) = 2022
```

```
PYTD_Avg_Price
1 28214
```

d. MTD Average Price:

```
select sum(Price) / count(Car_id) as MTD_Avg_Price
from car_data
where month(Date) = 12 and year(Date) = 2023

MTD_Avg_Price
1 28256
```

- 3) Cars Sold Metrics
  - a. Total Cars Sold:

b. YTD Cars Sold:

c. PYTD Cars Sold:

d. MTD Cars Sold:

#### B. Chart's

1) YTD Sales Weekly Trend:

	Week	YTD_Total_Sales		
1	1	2296582		
2	2	2279760		
3	3	2936337		
4	4	3164845		
_	5	3522840		

2) YTD Total Sales by Body Style:

```
select Body_style as Bod_Style,
       sum(Price) as YTD_Total_Sales
from car_data
where year(date) = 2023
group by Body_Style
      Body_Style
                 YTD_Total_Sales
      SUV
                 99892343
 1
 2
      Hatchback
                 82767328
                 73686576
 3
      Sedan
      Hardtop
                 51395949
 4
      Passenger
                 63442924
```

3) YTD Total Sales by Color:

125243022

4) YTD Total Sales by Dealer Region:

Black

```
select Dealer Region as Dealer Region,
        sum(Price) as YTD_Total_Sales
from car_data
where year(date) = 2023
group by Dealer_Region
      Dealer_Region
                   YTD_Total_Sales
      Janesville
                    58729582
2
      Pasco
                    48363916
3
      Aurora
                    49192302
      Austin
                    65036190
5
      Middletown
                    47566476
      Scottsdale
                    53413391
6
      Greenville
                    48883263
```

5) Company-Wise Sales Trend in Grid Form:

```
where year(date) = 2023
group by Company
order by Company desc
      Company
                   Avg_Price
                              YTD_Cars_Sold
                                             YTD_Total_Sales
      Volvo
                   27913
                              458
                                              12784239
 1
      Volkswagen
                              718
                                              18234357
2
                   25396
3
      Toyota
                   29515
                              593
                                              17502675
      Subaru
                                              6382440
                   27749
                              230
5
      Saturn
                   30402
                              326
                                              9911196
      Saab
                   37407
                                              4152188
                              111
```

## 6) YTD Total Sales by Company:

```
select Company as Company,
        sum(Price) as YTD_Total_Sales
from car_data
where year(Date) = 2023
group by Company
order by YTD_Total_Sales desc
     Company
                  YTD_Total_Sales
                  27112493
1
      Chevrolet
                  25429240
2
      Ford
                  25017441
3
      Dodge
      Oldsmobile
                  19627272
5
      Mercedes-B
                  19030864
      Mitsubishi
                  18722992
```

## 7) Top 5 YTD Total Sales by Model:

```
select top 5 Model as Model,
        sum(Price) as YTD_Total_Sales
from car_data
where year(Date) = 2023
group by Model
order by YTD_Total_Sales desc
     Model
                   YTD_Total_Sales
      LS400
                    7962296
1
2
      Silhouette
                    6725165
3
      Jetta
                    6271161
      Ram Pickup
4
                    6131348
5
     Montero Sport
                    5931587
```

## 8) Model by Annual Income:

1

2

4

5

Ford

Nissan

```
select Company as Company,
       Model as Model,
       Annual_Income as Annual_Income
from car_data
where year(Date) = 2023
order by Annual_Income desc
  Company
             Model
                       Annual_Income
  Oldsmobile
                       11200000
              Bravada
  Mercedes-B
              S-Class
                       8000000
              Sable
                       6600000
  Mercury
```

6500000

6400000

Mustang

Quest

## 9) Details Grid Showing All Car Sales Information:

	Car_id	Date	Customer_Name	Dealer_Name	Company	Color	Model
1	C_CND_010646	2023-01-02	Owen	Diehl Motor CO Inc	Ford	Black	Focus
2	C_CND_010647	2023-01-02	Patrick	Enterprise Rent A Car	Mitsubishi	Red	3000GT
3	C_CND_010648	2023-01-02	William	Scrivener Performance Engineering	Plymouth	Pale White	Neon
4	C_CND_010649	2023-01-02	Wyatt	Star Enterprises Inc	Chevrolet	Red	Lumina
5	C_CND_010650	2023-01-02	Izabella	Tri-State Mack Inc	Mercedes-B	Pale White	CLK Coupe
6	C_CND_010651	2023-01-02	Jacqueline	U-Haul CO	Honda	Pale White	Civic

# <u>NOTE</u>