# Car Sales Analysis in the United States for 2022 and 2023:

### Trends and Market Performance

DEPI\_ONL2\_DAT1\_G7

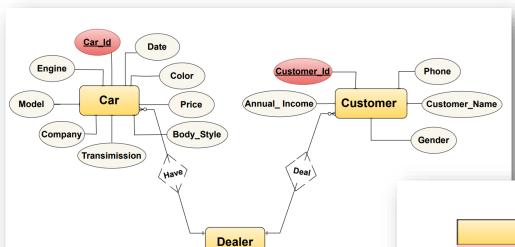
Submitted by: Group "A"

Ahmed Mansour "Team Leader"
Nancy ElOkdah
Hager Ayman
Passant Ali
Mahmoud Elwakeel



## Agenda:

- 1- Car\_Sales Schema & ERD Diagram
- 2- Database Creation
- 3- Data Analysis by SQL
- 4- Data Analysis by Python (Jupyter Notebook).
- 5- Data Visualization by Python (Jupyter Notebook).

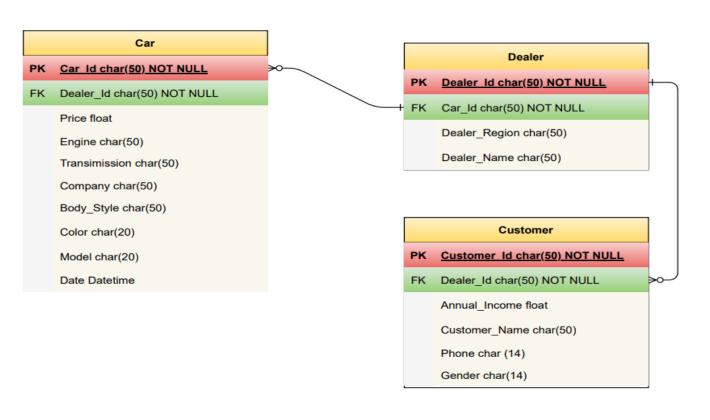


Dealer\_Region

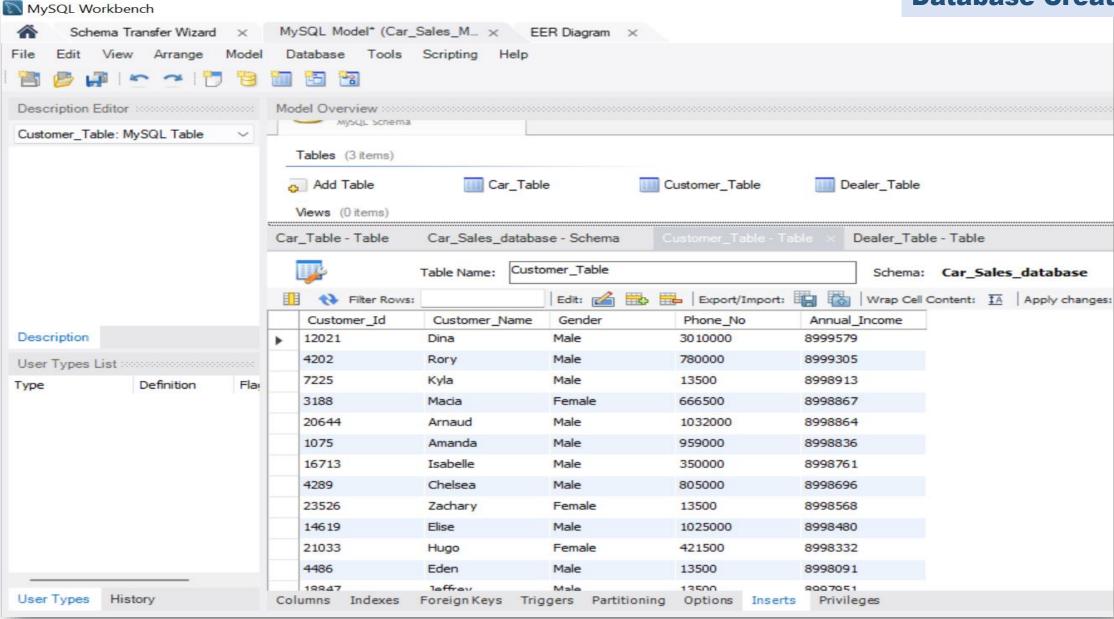
Dealer\_Name

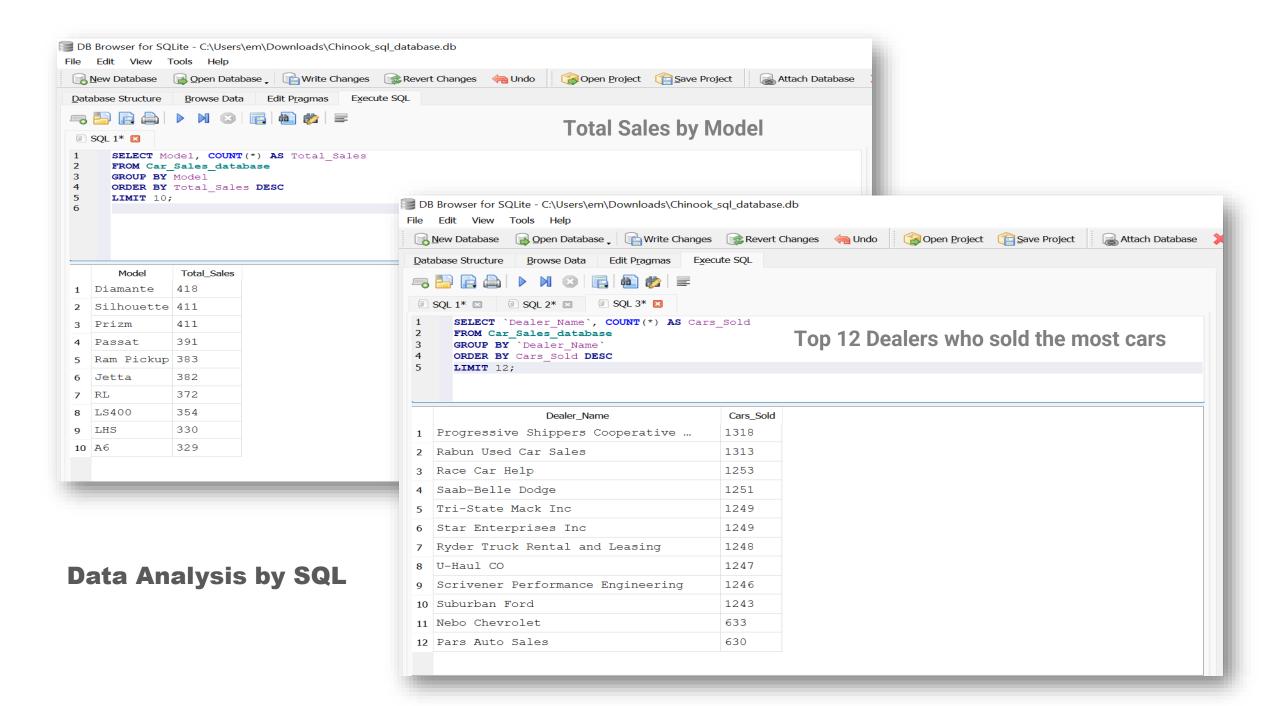
Dealer\_Id

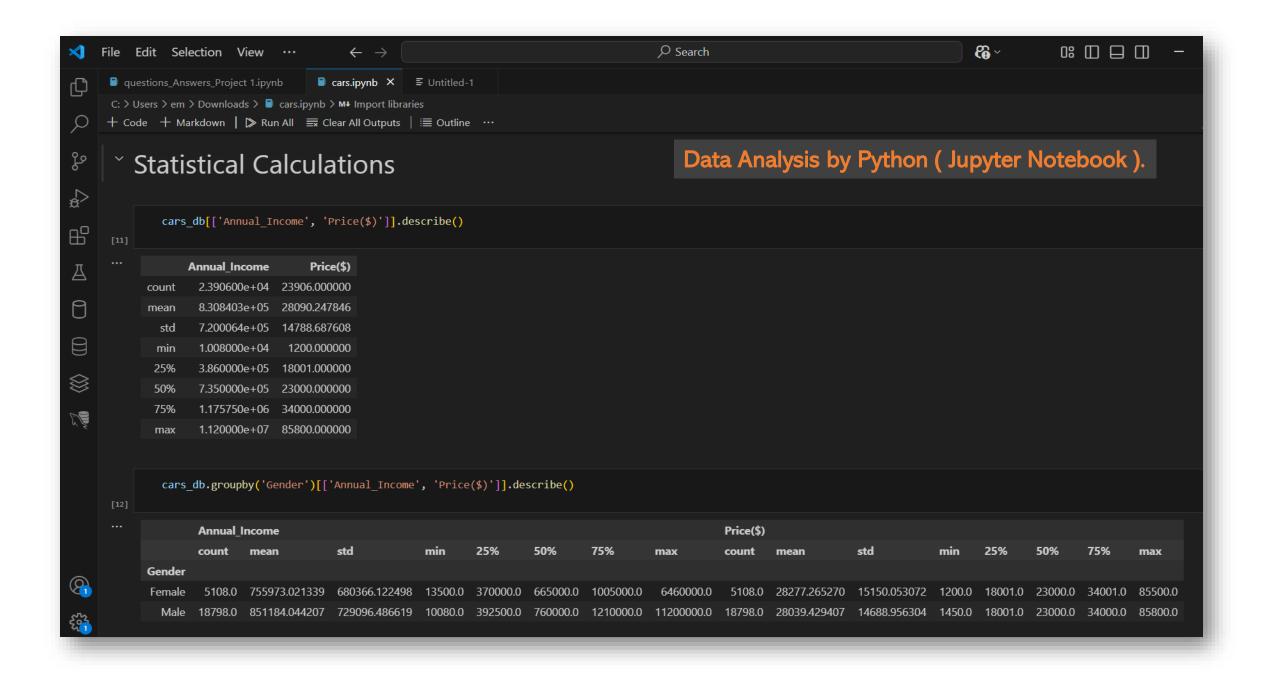
### Car\_Sales Schema & ERD Diagram



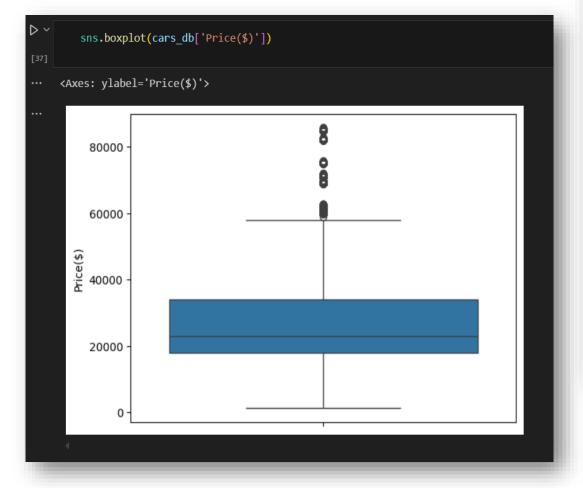
#### **Database Creation**







### Data Visualization by Python ( Jupyter Notebook ).



#### Distribution of Car Prices

```
sns.histplot(cars_db['Price($)'], bins=30, kde=True)
  plt.title('Distribution of Car Prices')
  plt.xlabel('Price ($)')
  plt.ylabel('Frequency')
Text(0, 0.5, 'Frequency')
                            Distribution of Car Prices
    3500
    3000
    2500
 2000 -
    1000
     500
                                     40000
                                                                80000
                       20000
                                                  60000
                                      Price ($)
```

