



- Create an interactive dashboard which shows how rapidly electric vehicles has captured the market.
- Along with create a detail insights based on cars company, dealers, models.
- To understand the overall landscape of electric vehicles to assess the market size and growth

KPI'S REQUIREMENT



1. Sales overview:

- Year to date(YTD) Total Sales
- Month to date(MTD) Total Sales
- Year to Year(YOY) Growth in Total Sales
- Difference between YTD Sales and Previous Year to date(PYTD) Sales

2. Average Price analysis:

- YTD Average price
- MTD Average price
- YOY Growth in Average price
- Difference in YTD Average price and PYTD Average price

KPI'S REQUIREMENT



3. Car sold metrics:

- YTD Cars sold
- MTD Cars sold
- YOY Growth in Cars sold
 Difference between YTD Cars sold and PYTD Car sold

CHART'S REQUIREMENT



- 1. YTD Sales weekly trend
- 2. YTD Total sales by body style
- 3. YTD Total sales by colour
- 4. YTD car sold by dealer region
- 5. Company-wise sales trend in grid form
- 6. Details grid showing all car sales information

PROJECT INSIGHTS



Sales overview:

- Year to date(YTD) Total Sales is \$371.2M
- Month to date(MTD) Total Sales is \$54.28M
- Year to Year(YOY) Growth in Total Sales has increased by 23.59%
- Difference between YTD Sales and Previous Year to date(PYTD) Sales is \$70.8M

Average Price analysis:

- YTD Average price is \$28.0K
- MTD Average price is \$28.26K
- YOY Growth in Average price has decreased by 0.79%
- Difference in YTD Average price and PYTD Average price (\$0.22K)

PROJECT INSIGHTS



Car sold metrics:

- The highest sales growth by weekly trend is in the 36th week of \$14.9M.
- It seems that customer prefer SUV type body style cars according to data as the sale of SUV is highest which is \$100M.
- Colour preference of customers is pale white with 47.02% sales growth.
- EV cars are sold mostly in the city of Austin with a count of 2296 numbers of cars.



DAX QUERY

1. Sales overview:

- YTD TOTAL SALES = TOTALYTD(SUM(car_data[Price (\$)]), 'Calender table'[Date])
- PYTD TOTAL SALES = CALCULATE(SUM(car_data[Price (\$)]), SAMEPERIODLASTYEAR('Calender table'[Date]))
- SALES DIFFERENCE = [YTD TOTAL SALES] [PYTD TOTAL SALES]
- YOY SALES GROWTH = [SALES DIFFERENCE]/[PYTD TOTAL SALES]
- MTD TOTAL SALES = TOTALMTD(SUM(car_data[Price (\$)]), 'Calender table'[Date])
- MTD KPI = CONCATENATE("MTD TOTAL EV SALES: ", FORMAT([MTD TOTAL SALES] / 1000000, "\$0.00M"))
- Max point = IF(MAXX(ALLSELECTED('Calender table'[Week]), [Total sales]) = [Total sales], MAXX(ALLSELECTED('Calender table'[Week]), [Total sales]), BLANK())





2. Average Price analysis:

- YTD AVERAGE PRICE = TOTALYTD([Average price], 'Calender table'[Date])
- MTD AVH SALES = TOTALMTD([Average price], 'Calender table'[Date])
- MTD AVG KPI = CONCATENATE("MTD AVG EV SALES: ", FORMAT([MTD AVH SALES]/ 1000, "\$0.00K"))
- PYTD AVG SALES = CALCULATE([Average price], SAMEPERIODLASTYEAR('Calender table'[Date]))
- Avg price difference = [YTD AVERAGE PRICE] [PYTD AVG SALES]
- YOY AVG GROWTH = [Avg price difference]/[PYTD AVG SALES]



DAX QUERY

3. Car sold metrics:

- YTD EV CAR SOLD = TOTALYTD(COUNT(car_data[Car_id]), 'Calender table'[Date])
- MTD CAR SOLD = TOTALMTD(COUNT(car_data[Car_id]), 'Calender table'[Date])
- MTD CAR SOLD KPI = CONCATENATE("MTD EV CAR SOLD : ", FORMAT([MTD CAR SOLD] / 1000, "\$0.00K"))
- PYTD CAR SOLD = CALCULATE(COUNT(car_data[Car_id]), SAMEPERIODLASTYEAR('Calender table'[Date]))
- Car sold difference = [YTD EV CAR SOLD] [PYTD CAR SOLD]
- YOY Car sold growth = car_data[Car sold difference]/[PYTD CAR SOLD]

PROJECT INSIGHTS



- Created a power BI dashboard of electric vehicles sales trend for the year 2022-23.
- In this project I did data cleaning in power query editor, build relation using data modelling between calendar table and car sold table
- Used time intelligence functions like Year to date(YTD), Month to date(MTD), Previous Year to date(PYTD)
- Used custom charts, maps to draw visual insights from the data.
- Used conditional formatting, filters, navigations, new card visuals, creating KPI'S.
- Created a Grid view dashboard displaying a table of all car details.