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Project Objective:

The objective of this Power BI project is to analyze and visualize trends in the used car market based on the given dataset. By exploring key factors like selling price, fuel efficiency, car age, ownership details, and transmission types the project aims to provide insights that can help buyers, sellers, and dealerships make informed decisions. The specific goals include:

1.Price Analysis: Understand how selling prices vary by car model, year, fuel type, and transmission.

2.Mileage & Fuel Efficiency: Analyze fuel efficiency across different types of vehicles (Petrol, Diesel, Electric, etc.) to highlight the cost-effectiveness of different options.

3.Car Depreciation Trends: Identify how the age of the car affects its price, helping potential buyers or sellers predict future resale values.

4.Ownership Impact on Price: Examine how the number of previous owners influences the resale value of cars.

5.Transmission Preference: Analyze the impact of transmission type (Manual vs. Automatic) on pricing and demand.

Import Data to MySQL Database

1.Prepare csv File
2.Create table in MySQL
3.Import csv file into MySQL

DAX Queries:-

```
YearGroup = switch(
True(),
'car car_dekho'[Year]<2000,"Before 2000",
'car car_dekho'[Year]>=2000 && 'car car_dekho'[Year]
<2005,"2000-2005",
'car car_dekho'[Year]>=2005 && 'car car_dekho'[Year]
<2010,"2005-2010",
'car car_dekho'[Year]>=2010 && 'car car_dekho'[Year]<2015,"2010-
2015",
'car car_dekho'[Year]>=2015 && 'car car_dekho'[Year]<2020,"2015-
2020",
'car car_dekho'[Year]>=2020 ,"2020 +")
```

PreviousYearPrice = CALCULATE(
SUM('car car_dekho'[Selling_Price]),FILTER(ALL('car
car_dekho'),'car car_dekho'[Year]=MAX('car car_dekho'[Year])-1))

CurrentYearPrice = CALCULATE(SUM('car
car_dekho'[Selling_Price]),FILTER(ALL('car car_dekho'),'car
car_dekho'[Year]=MAX('car car_dekho'[Year])))

YOY_Price = DIVIDE([CurrentYearPrice]-[PreviousYearPrice],
[PreviousYearPrice])

Power BI

Key Insights:-

1).The Highest (Manual Transmission) Selling Price Car is "Skode Slavia 1.0 Tsi Ambition" Having price 1350000.

2).The Top 3 Expensive Car is
   ~ Volvo Xc90 T8 Excellence Basic= (10000000).
   ~ Bmw X7 Xdrive 30D Dpe = (7200000).
   ~ Audi A6 35 Tfsi Matrix = (6523000).

3).Diesel Fuel Car Has highest sales(4304), then Petrol Cars (3534).

4).The total Cars Sold By Second Owner is 2020 Which was Highest in 2015-2020 Group.

5).In '2020'+ YearGroup has highest Average selling Price (0.99M) And After that '2015-2020' YearGroup Has highest selling price (0.94M).

6). The highest cars Sold By First Owner, Diesel Fuel , Manual Transmission And Individual Selling Type.

7).Before 2000 Year Only 37 Cars sold with Average selling price of 71729.70

8). The most selling price range is below 500000 in which 4260 Cars sold.

9). The Best Engine Group according to highest sales is "1000-2000 CC" Group which has 5.4k sales .