Automobile Dataset Analysis

Overview

This project shows how to clean, manipulate, and analyze data in Excel. The dataset includes vehicle listings that include information about the vehicle's condition, model, assembly type, fuel type, registration city, and transmission.

The goal is to extract insights and apply various data analysis techniques using functions like VLOOKUP, IF, AND, OR, FIND, RIGHT, LEN.

Dataset Description

- **AD ID** = A unique identifier for vehicles
- **Car Name** = Name of the cars
- **Make Model** = Brand and specific model
- **Price** = Price at which car is being sold
- **Fuel** = Fuel type of car (Diesel / CNG / Hybrid / Petrol)
- **Registration City** = City where each vehicle is officially registered.
- **Assembly** = Where the car was assembled or manufactured
- **Transmission** = Gear transmission of the car (Automatic / Manual)
- **Condition** = Condition of the car

Calculated Metrics

- **Status** = Classification of each vehicle based on its price perception (Selected / Not Selected)
- **Selection** = Whether a vehicle has been chosen for a particular purpose (Selected / Not Selected)

Analysis Questions

1. **What is the average price of CNG models in Suzuki?**
   Answer = 816,293
2. **How many local, automatic models in Honda in Lahore?**
   Answer = 305
3. **What is the total of all prices of imported, manual cars in Karachi?**
   Answer = 342,497,996
4. **What is the difference between average price of a local car and average price of an imported car?**
   Answer =
   Local Car Price = 2,146,814
   Imported Car Price = 1,820,826
5. **What is the percentage of CNG cars in the dataset?**
   Answer = 2.13%