Power BI Report

Project Title: Dubai House Price

Objective:

Create an interactive Power BI dashboard using Dubai house price dataset and to find meaningful insights.

Dataset Summary

Dataset dubai_house_price.csv contains 50000 rows and 6 columns.

Dataset fields:

square_feet: Size of property (in sqft)
 bedrooms: Number of bedrooms
 bathrooms: Number of bathrooms

neighborhood: Area Type (Rural, Suburb, Urban)year_built: Year the property was built

• **price:** Selling price of the property

Task Perform:

Step 1: Data Preparation (Using Power Query)

- 1. Clean missing and incorrect values.
- 2. Remove Duplicates.
- 3. Create the following calculated columns:
 - Price_per_sqft = price / size
 - Property_age = 2025 year_built
 - Listing_category = Budget/Mid-Range/High-End (based on price)

Step 2: Create Power BI Dashboard

Section 1: Key Matrices (KPI Cards)

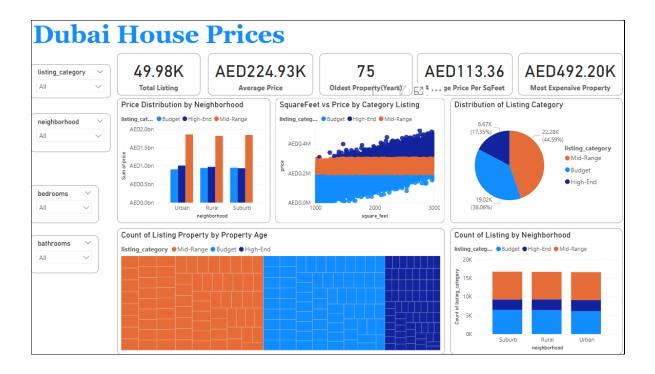
- Total Listing
- Average Listing Price
- Most Expensive Property
- Average Price Per Square Feet
- Oldest Property

Section 2: Visual Analytics (Charts)

- Bar Chart: Count of listing by Neighbourhood
- Pie Chart: Show the distribution of listing category
- Scatter Plot: Show the Square feet vs Price by Listing Category
- Clustered Column Chart: Price distribution by Neighbourhood
- Treemap: Show number of property in different Property Age and in Neighbourhood

Section 3: Slicer for Interactivity

- Filtering by Neighbourhood
- Filtering by Listing Category
- Filtering by Bedrooms
- Filtering by Bathrooms



Insights:

- 49.98K total number of listings, AED 224.93K average price of listing, AED113.36 average
 price per square feet of listing, most expensive property price AED492.20K, oldest property
 age is 75 years.
- 44.59% Mid-Range listings, 38.06% Budget listings, and 17.35% High-End listings.
- Suburb Neighbourhood has, 7446 Mid-Range listings, 2774 High-End listings, and 6496 Budget listings.
- Rural Neighbourhood has, **7355** Mid-Range listings, **2901** High-End listings, and **6412** Budget listings.

- Urban Neighbourhood has, **7482** Mid-Range listings, **2996** High-End listings, and **6116** Budget listings.
- The total listing price is summarized by category (Budget, Mid-Range, High-End) for each neighbourhood.
- Visualized the distribution of square feet and total price by listing category to identify trends in property size and pricing.
- Explored how the number of listings varies by property age and listing category to identify trends in newer vs. older properties.