

# Real Estate Property Analysis

## Assignment Questions



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## Dataset Overview

The dataset contains real estate property information, including details about property types, locations, pricing, area, and availability status. It is intended for students to practice creating various visualizations in Tableau and gain insights into the real estate market trends.

**Dataset Link:** [Real\\_Estate\\_dataset](#)

## Column Descriptions

- 1. Property ID:** A unique identifier for each property listing.
- 2. City:** The city where the property is located.
- 3. Property Type:** The type of property (e.g., Apartment, Villa, Independent House).
- 4. Price (₹ Lakhs):** The listed price of the property in Indian Rupees (Lakhs).
- 5. Area (Sq. Ft):** The total area of the property in square feet.
- 6. Status:** The current status of the property, such as Sold, Available, or Under Construction.
- 7. Bedrooms:** The number of bedrooms in the property.
- 8. Bathrooms:** The number of bathrooms in the property.
- 9. Year Built:** The year the property was constructed.
- 10. Latitude:** The latitude coordinate of the property (if applicable).
- 11. Longitude:** The longitude coordinate of the property (if applicable).

## Problem Statements

### ✅ Task 1: Analyze the Price Distribution of Properties Across Different Cities

- **Goal:** Create a Horizontal bar to visualize property price variation in different cities.

### ✅ Task 2: Compare Average Price for Each Property Type

- **Goal:** Create a Stacked Bar Chart showing the average price of different property types.

### ✅ Task 3: Identify the Top 3 Most Expensive Properties

- **Goal:** Find the three highest-priced properties.

### ✅ Task 4: Show the Percentage of Properties Sold vs. Available

- **Goal:** Use a Pie Chart to compare Sold, Available, and Under Construction properties.

### ✅ Task 5: Price Per Sq. Ft Analysis by City

**Goal:** Calculate the average price per square foot for each city to compare real estate value.

**Visualization:** Bar Chart showing average price per sq. ft. by city.

✔ **Task 6: Group Properties by Price Range and Analyze Count**

**Goal:** Categorize properties into Low, Medium, and High price ranges and analyze how many fall into each.

**Visualization :** Bar Chart showing how properties are distributed across different price bands.