

Project Report

Project Title:

Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau

Category:

Data Analytics with Tableau

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Tools Used:

- Tableau
 - Microsoft Excel / CSV
 - GitHub
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1. Objective

The goal of this project is to understand housing market trends and how different factors influence house prices. Using Tableau visualizations, we analyse the relationship between renovation status, house features, and sale prices to generate actionable insights for decision-makers in real estate.

2. Dataset Description

The dataset includes:

- House age
- Sale price
- Basement area
- Number of bedrooms, bathrooms, and floors
- Years since renovation

These features are visualized to identify patterns and understand the impact on pricing.

3. Scenarios and Visual Insights

Scenario 1: Overall Data Overview

Displays:

- Total records
- Average sale price
- Total basement area

Helps stakeholders get a quick overview of the dataset scale and basic stats.

Scenario 2: Total Sales by Years Since Renovation

Histogram showing how recently renovated homes perform in terms of sales.

Insight: Houses renovated recently generally sell at higher prices.

Scenario 3: House Age by Renovation Status

Pie chart showing proportions of renovated vs. non-renovated homes based on age groups.

Insight: Visualizes how renovations are distributed across different house ages.

Scenario 4: House Age by Bedrooms, Bathrooms, and Floors

Grouped bar chart showing age distribution for different house configurations.

Insight: Reveals trends in how house size/features relate to age.

4. Key Takeaways

- Renovated homes attract higher sale prices.
 - Most homes in the dataset are 20+ years old.
 - Homes with more modern features tend to be newer or recently renovated.
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5. Conclusion

This Tableau-based dashboard project successfully uncovers valuable insights about housing market dynamics. By analyzing renovation status, structural features, and pricing, stakeholders can make smarter investment and pricing decisions. The visual format makes the data easy to interpret for both analysts and non-technical stakeholders.

Attachments

- Tableau Workbook (.twbx)
- CSV Dataset
- Dashboard Screenshots