

Power BI Real Estate Project Dashboard Documentation

Introduction

This document serves as a comprehensive guide to the Power BI Real Estate Project Dashboard. It is designed for students to understand the various components of the dashboard, including its purpose, key metrics, and the insights derived from its visualizations. The dashboard provides a holistic view of real estate project performance, enabling users to analyze revenue, expenses, profits, and property sales.

Dashboard Overview

The Power BI Real Estate Project Dashboard is an interactive and visually rich tool that consolidates critical data points related to real estate operations. It aims to provide a clear and concise summary of the project's financial health and sales performance. The dashboard is structured to allow for easy navigation and understanding of complex data through intuitive visualizations.

Key Metrics

At the forefront of the dashboard are four crucial key performance indicators (KPIs) that offer an immediate snapshot of the project's status:

- **Revenue: 26 Million (M)** This metric represents the total income generated from property sales and other related activities within the real estate project. A high revenue figure indicates strong sales performance and market demand for the properties.
- **Expenses: 20 Million (M)** Expenses account for all costs incurred during the real estate project, including operational costs, marketing, maintenance, and other overheads. Monitoring expenses is vital for cost control and ensuring profitability.

- **Profits: 6 Million (M)** Profit is calculated as the difference between total revenue and total expenses. It signifies the financial gain or loss from the project. A positive profit margin, as seen here, indicates a successful and financially viable project.
- **Sold Properties: 26** This metric quantifies the total number of properties successfully sold within the reporting period. It is a direct indicator of sales volume and market penetration.

These KPIs are prominently displayed to provide users with an instant understanding of the project's overall performance, serving as a quick reference for stakeholders and decision-makers.

Visualizations

The dashboard leverages various types of visualizations to present data in an easily digestible format, allowing for deeper insights into the real estate project's performance. Each visualization is designed to highlight specific aspects of the data, from geographical distribution to temporal trends and individual contributions.

1. Revenue by Country (Map Visualization)

This visualization utilizes a map chart to display the geographical distribution of revenue. Countries are shaded based on the revenue generated, with darker shades typically indicating higher revenue contributions. This provides a quick visual understanding of which regions are performing strongly and which may require more attention. For instance, Chile and New Zealand show significant revenue contributions, suggesting strong market presence or successful sales strategies in these areas. Conversely, countries like Argentina, Canada, Germany, Japan, Malaysia, and Mexico, with 1M revenue each, indicate a more uniform or nascent market presence.

2. Revenue by Country (Table)

Complementing the map visualization, this table provides a precise, numerical breakdown of revenue by country. It lists each country alongside its corresponding revenue figure, allowing for detailed analysis and comparison. This tabular format is

particularly useful for identifying exact revenue figures that might be less precise on the map. The data includes:

- Argentina: 1M
- Canada: 1M
- Chile: 4M
- China: 1M
- Egypt: 3M
- Germany: 1M
- Japan: 1M
- Malaysia: 1M
- Mexico: 1M
- New Zealand: 4M
- Nigeria: 2M

This combination of map and table ensures both a high-level visual overview and detailed numerical accuracy.

3. Agent Performance (Table)

This table provides insights into the performance of individual real estate agents. It includes an image of each agent, their name, and the revenue they have generated. This visualization is crucial for assessing individual contributions, identifying top performers, and understanding the sales force's effectiveness. The total revenue generated by these agents sums up to 26M, aligning with the overall revenue KPI. Key agents and their contributions include:

- William Davis: 5M
- Sophia Wilson: 3M
- Olivia Jones: 2M
- Noah Williams: 2M
- Liam Brown: 2M
- James Smith: 5M

This breakdown helps in recognizing high-performing agents and potentially identifying areas for training or support for others.

4. Glimpses of Properties

This section serves as a visual showcase of the properties involved in the real estate project. While not a data visualization in the traditional sense, it provides essential context and a tangible representation of the assets being managed and sold. Displaying property images helps in connecting the abstract financial data with the physical aspects of the real estate business, making the dashboard more relatable and engaging for students.

5. Expense by Quarter (Area Chart)

This area chart visualizes the trend of expenses over four quarters. It helps in understanding spending patterns throughout the year and identifying periods of high or low expenditure. The data points are:

- Qtr 1: 1.9M
- Qtr 2: 8.6M
- Qtr 3: 4.7M
- Qtr 4: 4.6M

The chart clearly shows a significant increase in expenses in Qtr 2, followed by a decline in Qtr 3 and Qtr 4. This could indicate seasonal operational costs, large-scale marketing campaigns, or specific project phases that incurred higher expenses.

6. Revenue by Month Name (Bar Chart)

This bar chart illustrates the monthly revenue trends, providing a granular view of sales performance throughout the year. Analyzing this chart can reveal seasonality in the real estate market, the impact of specific marketing efforts, or economic factors influencing sales. The bars represent revenue for each month from February to December, allowing for a clear visual comparison of monthly performance.

7. Pareto Chart: Revenue by Country

This Pareto chart combines a bar chart and a line graph to provide a powerful analysis of revenue by country. The bars represent the revenue generated by each country, sorted in descending order, while the line graph shows the cumulative percentage of total revenue. This chart is particularly useful for applying the 80/20 rule (Pareto Principle), identifying the few countries that contribute the most to the overall revenue. The countries included are Chile, New Zealand, Egypt, Nigeria, United States, and Spain. This visualization helps in prioritizing efforts and resources towards the most impactful regions.

Interactive Elements / Filters

The dashboard includes interactive elements to enhance user experience and data exploration. The presence of year filters (2025, 2026, 2027) suggests that users can dynamically adjust the data displayed to focus on specific time periods. This functionality is crucial for historical analysis, trend identification, and future planning.

Conclusion

This Power BI Real Estate Project Dashboard is a robust tool for analyzing key aspects of a real estate business. By integrating various data points and presenting them through diverse visualizations, it enables users to gain actionable insights into financial performance, sales trends, and agent effectiveness. For students, understanding this dashboard provides a practical foundation in data analysis and visualization within the real estate domain.

Dashboard Visual

Below is the complete Power BI dashboard that this documentation refers to:

Revenue by Country



Name of Country Revenue

Argentina	1M
Canada	1M
Chile	4M
China	1M
Egypt	3M
Germany	1M
Japan	1M
Malaysia	1M
Mexico	1M
New Zealand	4M
Nigeria	2M

Img	Name	Revenue
	William Davis	5M
	Sophia Wilson	3M
	Olivia Jones	2M
	Noah Williams	2M
	Liam Brown	2M
	James Smith	5M
	Total	26M

2025

2026

2027

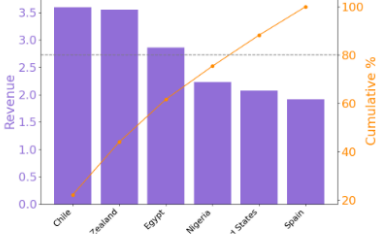
Glimpses of Properties



Revenue by Month Name



Pareto Chart: Revenue by Country



Revenue

26M



Expenses

20M



Profits

6M



Sold Properties

26