Project on "Real estate Canada"

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Introduction

Representing Canadian real estate, comprises 5000 entries across 10 distinct attributes. This dataset simulates diverse real estate properties within major Canadian cities, incorporating essential property features .

- **Market Diversity**: Canada's real estate market includes residential, commercial, industrial, and agricultural properties. Major cities like Toronto, Vancouver, and Montreal have bustling urban markets, while rural and suburban areas offer different opportunities and challenges.

- **Residential Market**: Housing in Canada ranges from single-family homes to condominiums and rental apartments. Affordability and availability vary widely across provinces and cities, with urban centres often experiencing higher demand and prices.

- **Commercial and Industrial Properties**: Canada's commercial real estate sector includes office buildings, retail spaces, warehouses, and industrial properties. Major urban centers are hubs for commercial activity, attracting businesses and investors.

Price ● Bedrooms ● Bathrooms ● SqFt ● City ● Year_Built ● Type ● Garage ● Lot_Area

Mission Statement

To provide insightful and data-driven analysis of the real estate market, empowering stakeholders to make informed decisions by leveraging comprehensive data visualizations and predictive analytics in Power BI.

Purpose

The purpose of our Power BI dashboard is to centralize and streamline real estate data analysis, offering a clear and detailed understanding of market trends, property valuations, and distribution patterns. By transforming raw data into actionable insights, we aim to support real estate investors, developers, agents, and policymakers in optimizing their strategies and maximizing their opportunities.

Objectives

1. Data Integration and Management

Data integration and management frameworks in Canada ensure that real estate data is managed ethically, securely, and in compliance with regulatory requirements , This involves defining data ownership, access controls, and data privacy measures.

2. Market Trend Analysis

A real estate market analysis is a tool that helps us to gather information to know, for example, if we should invest in a property or to determine the rental potential of a city or district

3. Price and Value Assessment

. It is used to determine the price that should be charged for a good or service.

4. Efficiency Evaluation standardized- A standardized method for evaluating residential energy efficiency allows homeowners to compare the energy performance of their house with similar-sized houses in their region
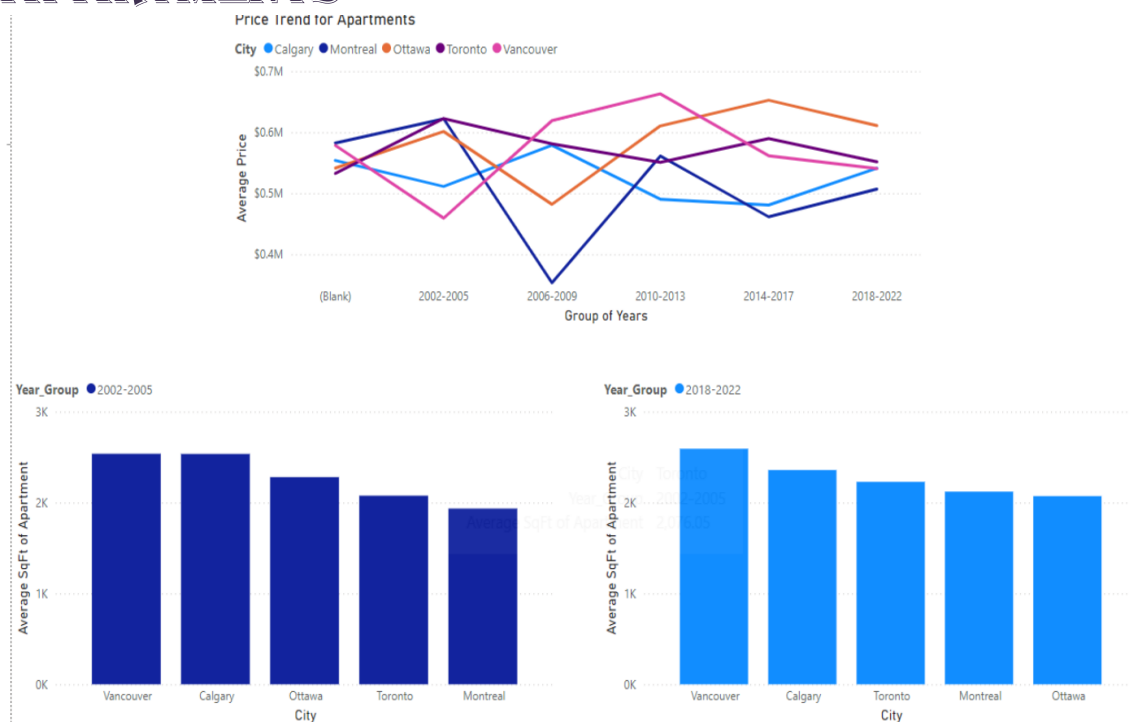
5. Distribution and Diversity Insights - Distribution and diversity insights in the context of real estate and housing typically refer to understanding the geographical spread of properties and the variety of housing options available within a given market or region.
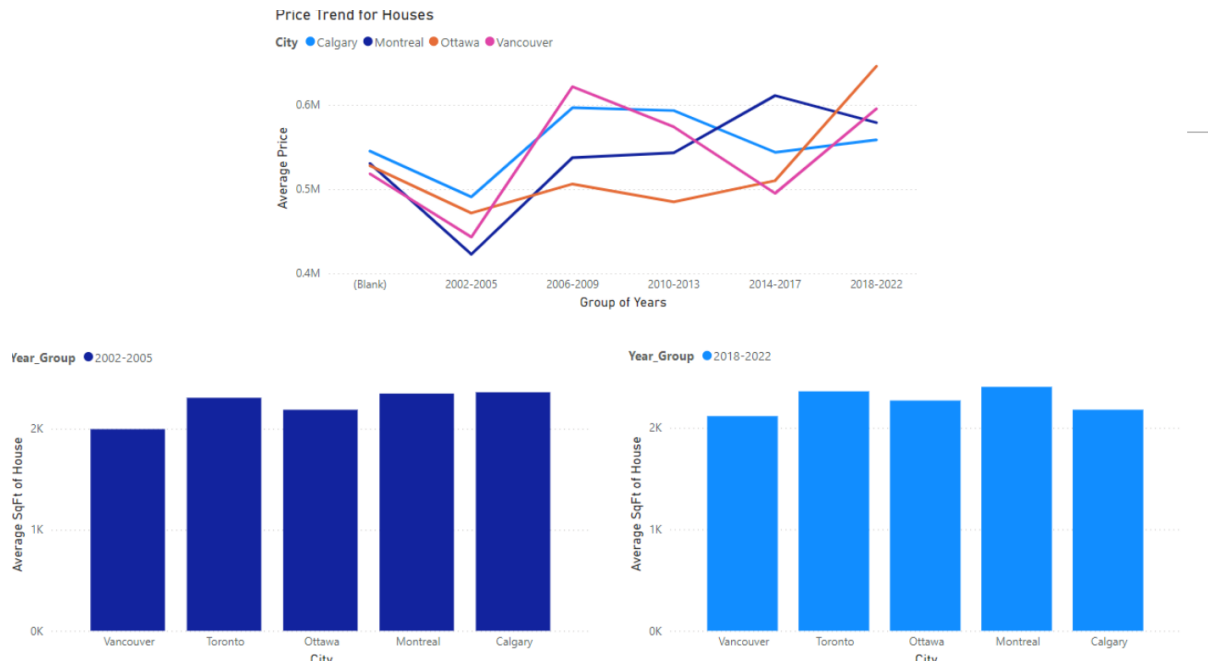
6. Predictive Analytics

CONDOS

APARTMENTS

HOUSES

Price Trend for Houses

City ● Calgary ● Montreal ● Ottawa ● Vancouver

Year_Group ● 2002-2005

Year_Group ● 2018-2022

CONCLUSION

Price Trends: Significant increases across all property types, with Vancouver and Toronto leading. Noticeable fluctuations during the financial crisis. Size Trends: Decrease in average size of apartments and condos, indicating a shift towards compact living. House sizes remained stable. City Comparisons: Toronto and Calgary have larger houses; Vancouver initially had larger apartments and condos but sizes decreased over time