King County Housing Market Dashboard

Exploratory analysis and visualization with Tableau

Dataset

- Source: King County House Sales dataset (Seattle area, USA)

- Records: ~21,000 house sales

- Fields: Price, Bedrooms, Bathrooms, Sqft Living, Sqft Lot, Year Built, Zipcode, Waterfront

Objective

- Explore housing market trends in King County
- Identify main drivers of house prices
- Create an interactive dashboard for real estate insights

Visuals & Analysis

- Map: Prices by Zipcode — Hotspots of expensive properties, especially near waterfronts.

- Scatter: Sqft Living vs Price — Larger homes cost more, with clear luxury outliers.

- Bar: Bedrooms vs Average Price — 3–4 bedroom homes dominate, bedroom count isn't always proportional to price.

- Trend: Prices Over Time — General upward trend, seasonal fluctuations present.

Dashboard

- Combined KPIs + Map + Scatter + Trend
- Filters: Zipcode, Bedrooms, Year Built
- Fully interactive for drilling into trends

Filters

King County, Washngton House Sales Dashboard

Select Time
June 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Select Built Year
1900 to 2005

Select Sqft
290 to 6,892

Select Sqft Lot
520 to 632,145

Avg. Price
220,893   1,317,500

Daily Avg Sales Price

Avg. Price — Date [June 2014]

Map

© 2025 Mapbox © OpenStreetMap
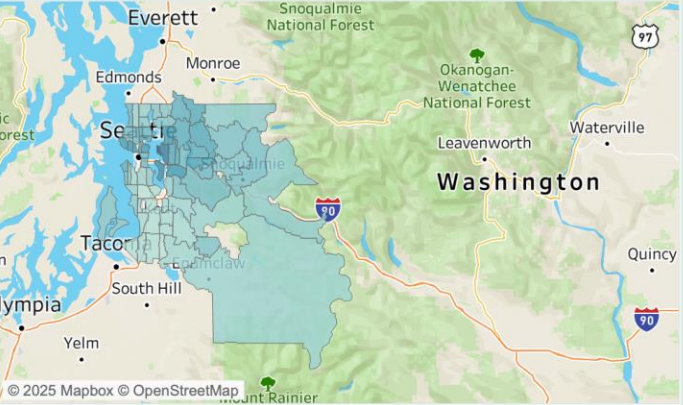
Distribution of Prices

Frequency — Price (bin)

Heatmap

View	Poor- Worn o..	Fair- Badly w..	Condition Average	Good	Very Good
Excellent			873,611	977,184	908,000
Good			883,179	739,611	661,658
Average			705,850	697,930	771,579
Fair			759,325	593,986	775,750
No View	342,333	239,032	487,982	462,250	578,795

Distribution of Bedrooms

Frequency — Bedrooms (bin)

Distribution of Bathrooms

Frequency — Bathrooms (bin)

Insights

- Location & square footage are strongest price drivers.

- Bedrooms alone do not guarantee higher price.

- Waterfront properties fetch the highest premiums.

- Market trend: house prices generally increasing over time.

Skills Demonstrated

- Tableau data cleaning & preparation
- KPI creation & calculated fields (e.g., price per sqft)
- Geospatial visualization
- Dashboard design with interactivity
- Business storytelling with data