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

DATE	28-02-2026
TEAM ID	LTVIP2026TMID90693
PROJECT NAME	Visualizing Housing market Trends: An Analysis of Sale Prices and Features using Tableau
MAXIMUM MARKS	4 MARKS

5.2 Sprint Delivery Plan

Visualizing housing market trends using Tableau involves converting raw real estate data—such as sale prices, square footage, location, and property features—into interactive, actionable dashboards. This analysis typically identifies key drivers of price variations, such as location and property size, helping stakeholders make informed decisions. A structured sprint delivery plan for this type of data project generally follows an Agile, 5stage methodology (similar to CRISP-DM):

1. Sprint 1: Project Initiation & Data Preparation (Week 1)
- **Objective:** Define scope, gather data, and clean the dataset.

- **Tasks:**

  o **Requirements Gathering:** Identify key performance indicators (KPIs) like median sale price, price per sq. ft., and average days on market.

  o **Data Collection:** Acquire housing data (e.g., from public datasets or MLS).

  o **Data Cleaning:** Use Excel or Python (Pandas) to handle missing values, inconsistent formatting, and anomalies.

- **Deliverable:** A cleaned dataset ready for visualization.

2. Sprint 2: Exploratory Data Analysis & Viz Creation (Week
- **Objective:** Develop individual visualizations and analyse correlations.

- **Tasks:**

- **Feature Analysis:** Analyse correlations between features (e.g., number of bedrooms, bathrooms) and price.

- **Create Charts:** Develop individual sheets in Tableau:

  - ✦ **Spatial Analysis:** Filled maps showing price by zip code.

  - ✦ **Trend Analysis:** Line charts showing price trends over time.

  - ✦ **Feature Comparison:** Scatter plots or bar charts comparing price vs. square footage or property condition.

- **Deliverable:** A set of functional, individual visualizations.

3. Sprint 3: Dashboard Development & Interactivity (Week 3)

- **Objective:** Assemble the final interactive dashboard.

- **Tasks:**

- **Dashboard Layout:** Design a cohesive dashboard using containers to structure the view.

- **Interactivity:** Add filters (e.g., by zip code, price range) and actions (e.g., highlight, filter).

- **Formatting:** Apply consistent colour schemes and remove clutter for better readability.

- **Deliverable:** An interactive, user-friendly Tableau Dashboard.

4. Sprint 4: Insights, Testing & Deployment (Week 4)

- **Objective:** Finalize insights and publish.

- **Tasks:**

  - o **Validation:** Review dashboards with stakeholders to ensure accuracy.

  - o **Final Report:** Summarize key findings, such as which areas or features drive the highest prices.

  - o **Deployment:** Publish the finalized workbook to Tableau Public or Tableau Server.

- **Deliverable:** Final presentation and deployed dashboard.

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