Project Report

Team ID	PNT2025TMID14588
Project Name	visualizing housing market trends: an analysis of sale prices and features using tableau

1. INTRODUCTION

1.1 Project Overview

The project titled **"Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau"** aims to transform raw housing data into meaningful visual insights. It focuses on analyzing factors such as **years since renovation, house age, number of bathrooms, bedrooms, and floors**, and how these impact **house sale prices**.

Using **Tableau** and **Tableau Prep Builder**, this project cleans, processes, and visualizes the data through interactive dashboards and storytelling features. The result is a powerful tool that helps users **understand pricing trends**, observe **buyer behavior**, and **explore property feature patterns** through engaging, data-driven visuals.

1.2 Purpose

The purpose of this project is to:

- Provide an **interactive platform** to explore housing market data.
- Identify and visualize how **specific features and renovations** influence house sale prices.
- Help users understand **sales distribution trends** based on age and renovations.
- Deliver **clear, visual narratives** for analytical insights using Tableau's storytelling capability.

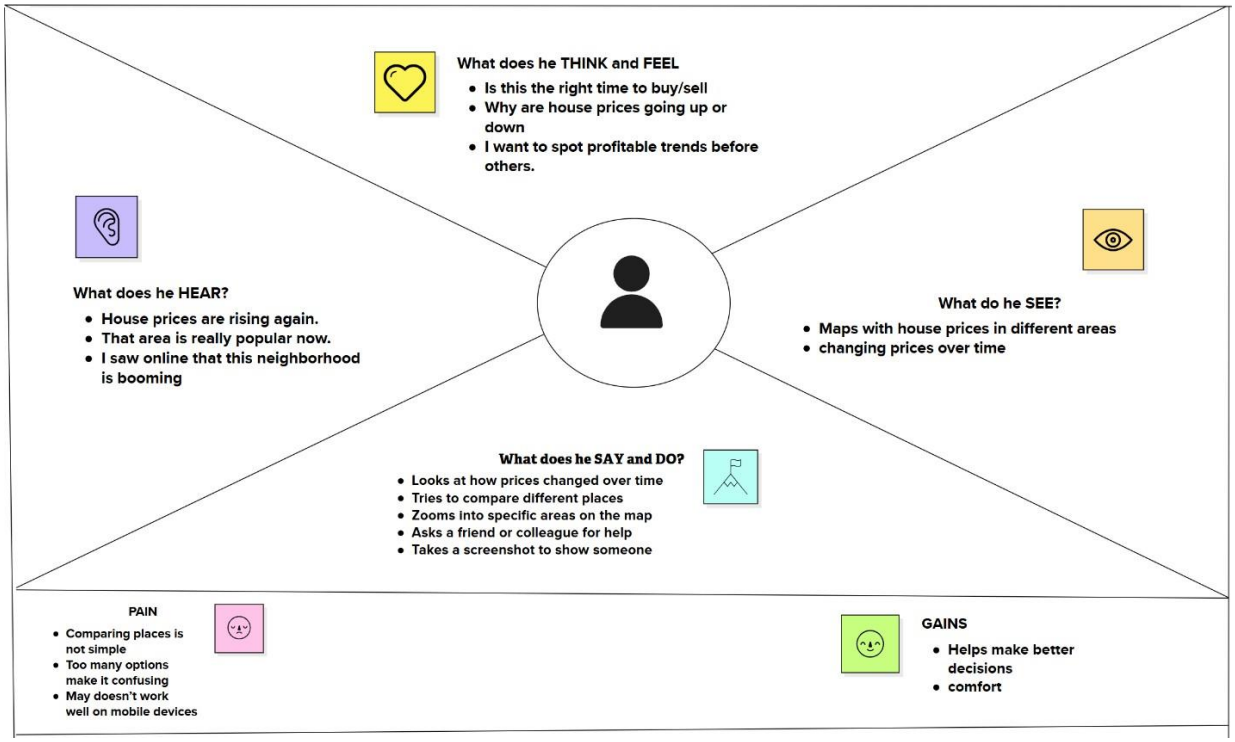
2. IDEATION PHASE

2.1 Problem Statement

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A real estate analyst	understand what features affect house prices	the data is too complex and scattered	I don't have a single dashboard that shows clear trends	frustrated and unsure about my decisions
PS-2	A marketing strategist	target the right segment of buyers	I don't know what trends are	I can't link buyer behavior to house characteristics	ineffective and misaligned

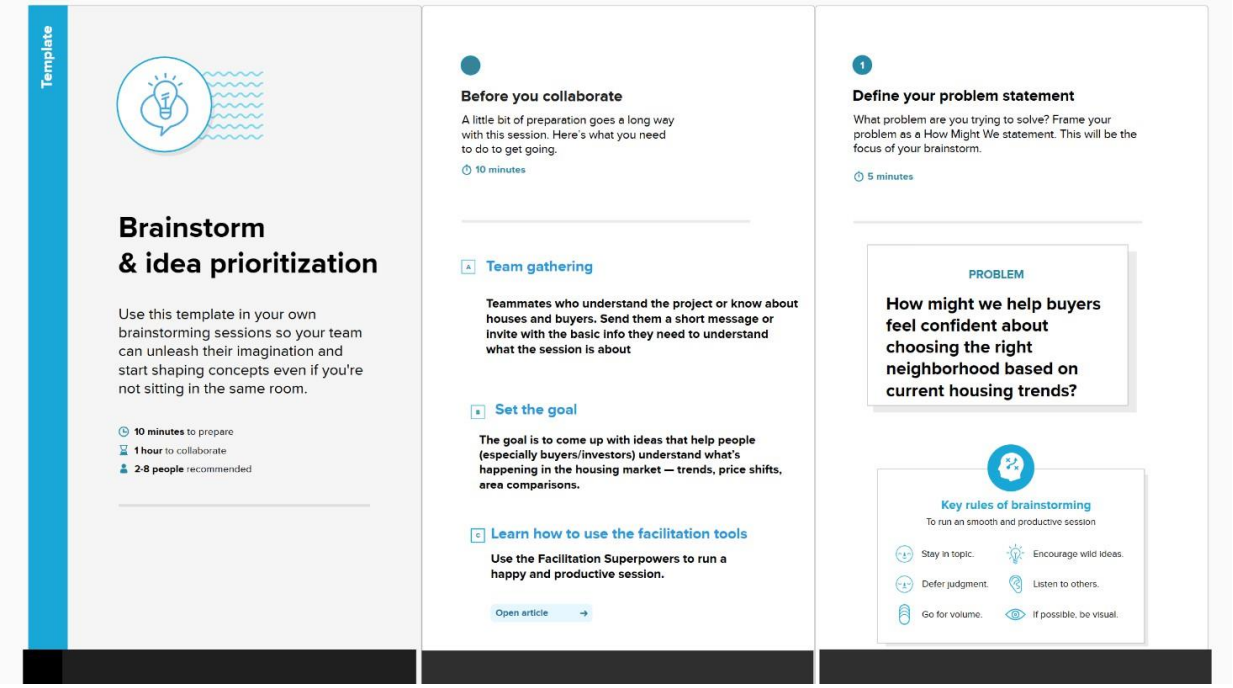
			influencing sales		
PS-3	A company executive	make strategic investment decisions	I can't clearly see performanc e patterns	current reports lack visual clarity and interactivity	hesitant and data-blind

2.2 Empathy Map Canvas

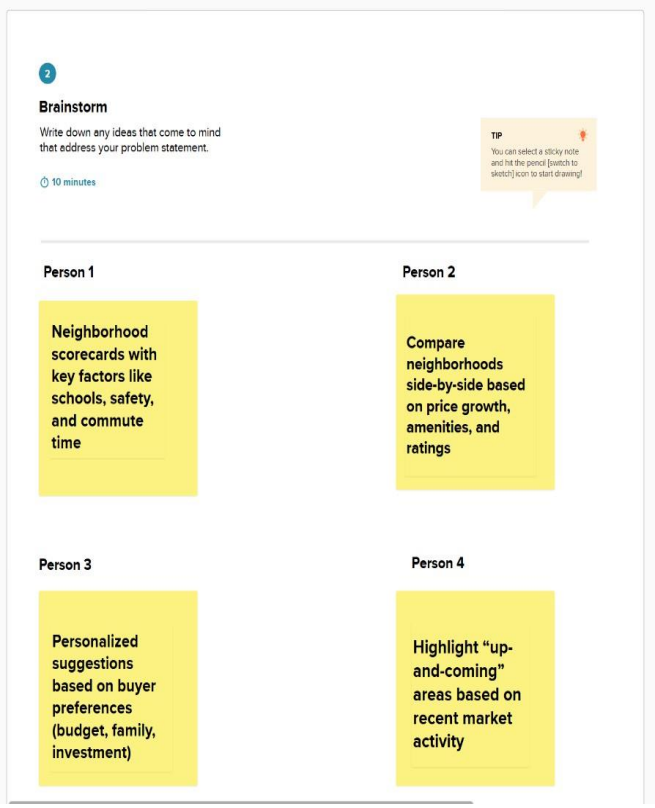


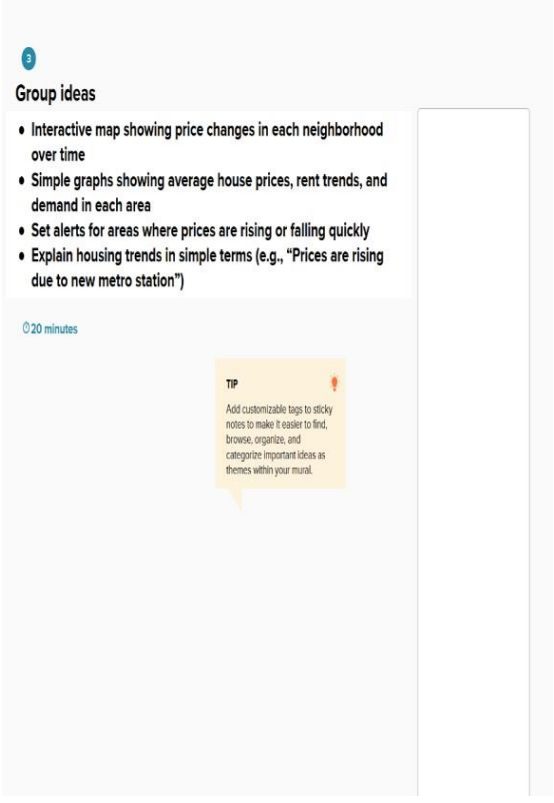
2.3 Brainstorming

Step-1: Team Gathering, Collaboration and Select the Problem Statement

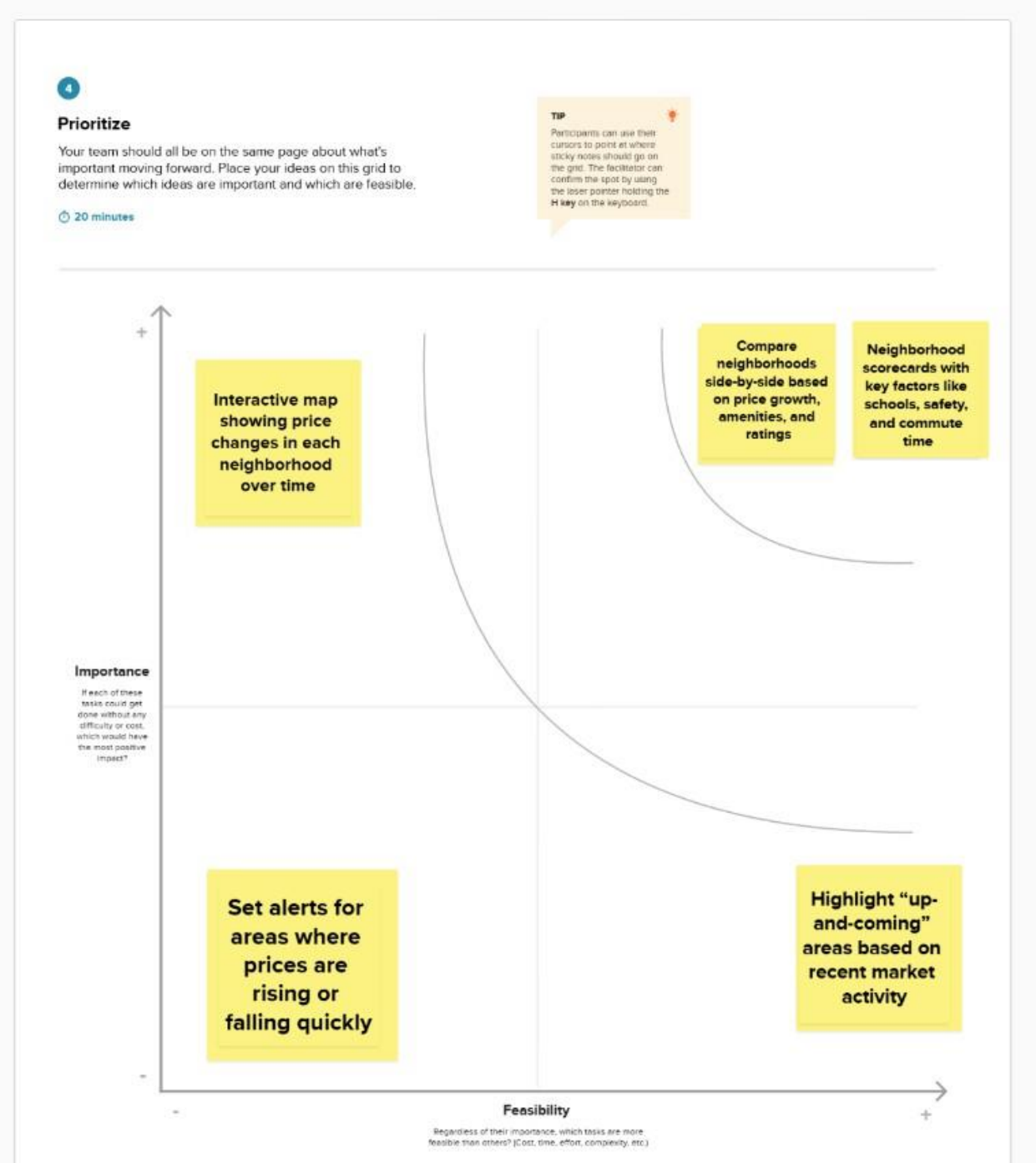


Step-2: Brainstorm, Idea Listing and Grouping



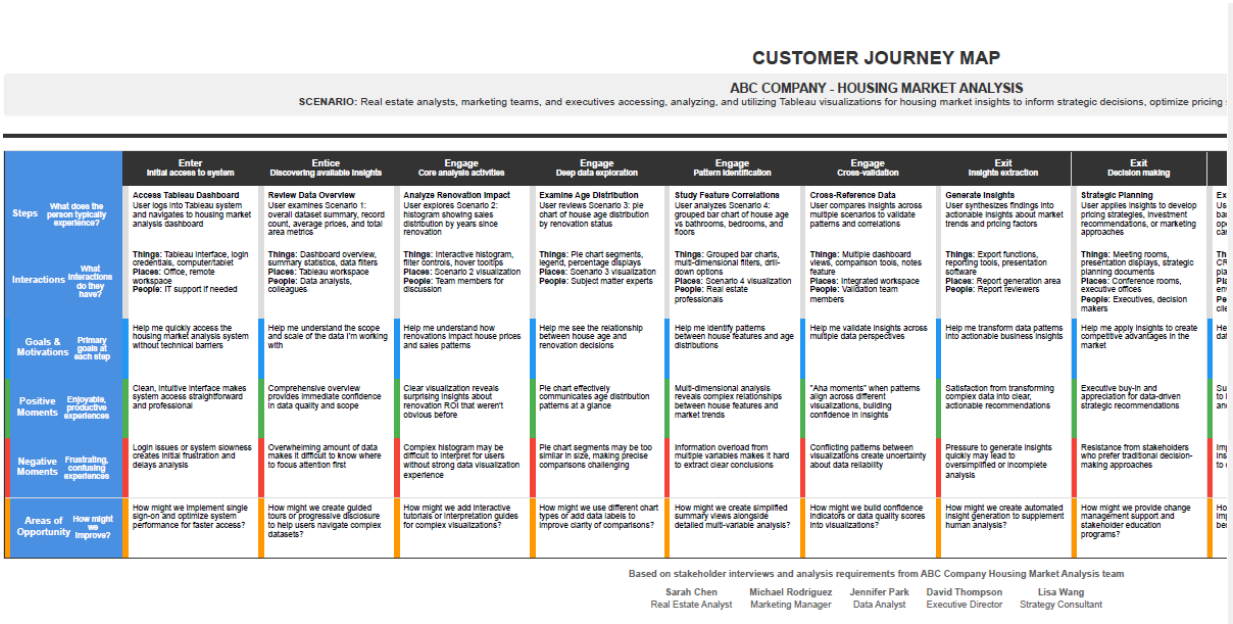


Step-3: Idea Prioritization



3. REQUIREMENT ANALYSIS

3.1 Customer Journey map



CUSTOMER JOURNEY MAP

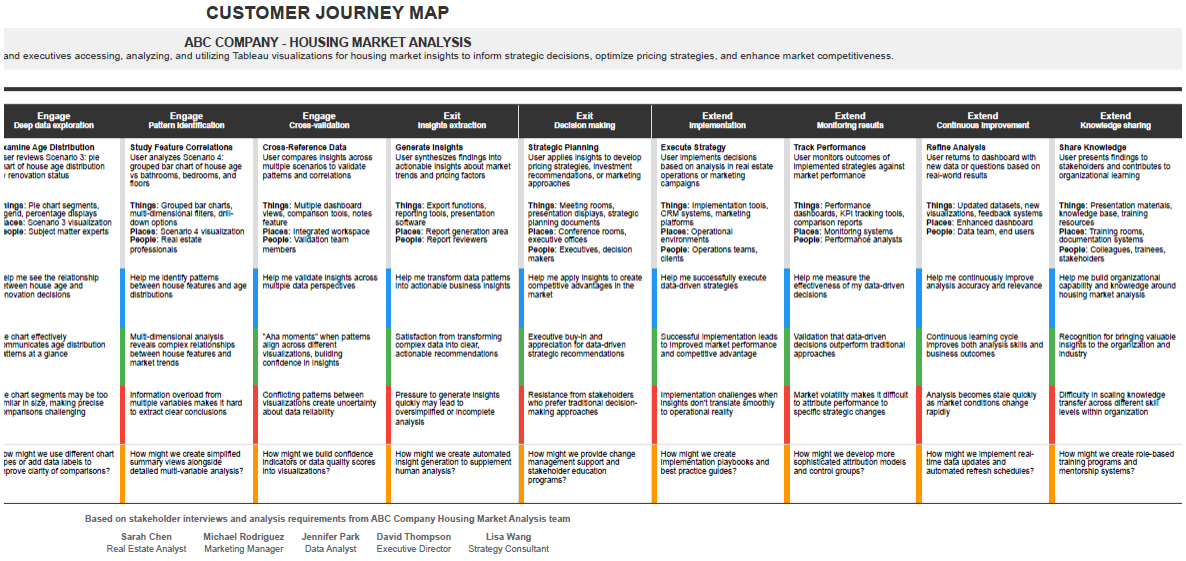
ABC COMPANY - HOUSING MARKET ANALYSIS

SCENARIO: Real estate analysts, marketing teams, and executives accessing, analyzing, and utilizing Tableau visualizations for housing market insights to inform strategic decisions, optimize pricing

	Enter Initial access to system	Entice Discovering available insights	Engage Core analysis activities	Engage Deep data exploration	Engage Pattern identification	Engage Cross-validation	Exit Insights extraction	Exit Decision making
Steps What does the person typically experience?	**Access Tableau Dashboard** User logs into Tableau system and navigates to housing market analysis dashboard	**Review Data Overview** User examines Scenario 1: overall dataset summary, record count, average prices, and total area metrics	**Analyze Renovation Impact** User explores Scenario 2: histogram showing sales distribution by years since renovation	**Examine Age Distribution** User reviews Scenario 3: pie chart of house age distribution by renovation status	**Study Feature Correlations** User analyzes Scenario 4: grouped bar chart of house age vs bathrooms, bedrooms, and floors	**Cross-Reference Data** User compares insights across multiple scenarios to validate patterns and correlations	**Generate Insights** User synthesizes findings into actionable insights about market trends and pricing factors	**Strategic Planning** User applies insights to develop pricing strategies, investment recommendations, or marketing approaches
Interactions What interactions do they have?	**Things:** Tableau interface, login credentials, computer/tablet **Places:** Office, remote workspace **People:** IT support if needed	**Things:** Dashboard overview, summary statistics, data filters **Places:** Tableau workspace **People:** Data analysts, colleagues	**Things:** Interactive histogram, filter controls, hover tooltips **Places:** Scenario 2 visualization **People:** Team members for discussion	**Things:** Pie chart segments, legend, percentage displays **Places:** Scenario 3 visualization **People:** Subject matter experts	**Things:** Grouped bar charts, multi-dimensional filters, drill-down options **Places:** Scenario 4 visualization **People:** Real estate professionals	**Things:** Multiple dashboard views, comparison tools, notes feature **Places:** Integrated workspace **People:** Validation team members	**Things:** Export functions, reporting tools, presentation software **Places:** Report generation area **People:** Report reviewers	**Things:** Meeting rooms, presentation displays, strategic planning documents **Places:** Conference rooms, executive offices **People:** Executives, decision makers
Goals & Motivations Primary goals at each step	Help me quickly access the housing market analysis system without technical barriers	Help me understand the scope and scale of the data I'm working with	Help me understand how renovations impact house prices and sales patterns	Help me see the relationship between house age and renovation decisions	Help me identify patterns between house features and age distributions	Help me validate insights across multiple data perspectives	Help me transform data patterns into actionable business insights	Help me apply insights to create competitive advantages in the market
Positive Moments Enjoyable, productive experiences	Clean, intuitive interface makes system access straightforward and professional	Comprehensive overview provides immediate confidence in data quality and scope	Clear visualization reveals surprising insights about renovation ROI that weren't obvious before	Pie chart effectively communicates age distribution patterns at a glance	Multi-dimensional analysis reveals complex relationships between house features and market trends	"Aha moments" when patterns align across different visualizations, building confidence in insights	Satisfaction from transforming complex data into clear, actionable recommendations	Executive buy-in and appreciation for data-driven strategic recommendations
Negative Moments Frustrating, confusing experiences	Login issues or system slowness creates initial frustration and delays analysis	Overwhelming amount of data makes it difficult to know where to focus attention first	Complex histogram may be difficult to interpret for users without strong data visualization experience	Pie chart segments may be too similar in size, making precise comparisons challenging	Information overload from multiple variables makes it hard to extract clear conclusions	Conflicting patterns between visualizations create uncertainty about data reliability	Pressure to generate insights quickly may lead to oversimplified or incomplete analysis	Resistance from stakeholders who prefer traditional decision-making approaches
Areas of Opportunity How might we improve?	How might we implement single sign-on and optimize system performance for faster access?	How might we create guided tours or progressive disclosure to help users navigate complex datasets?	How might we add interactive tutorials or interpretation guides for complex visualizations?	How might we use different chart types or add data labels to improve clarity of comparisons?	How might we create simplified summary views alongside detailed multi-variable analysis?	How might we build confidence indicators or data quality scores into visualizations?	How might we create automated insight generation to supplement human analysis?	How might we provide change management support and stakeholder education programs?

Based on stakeholder interviews and analysis requirements from ABC Company Housing Market Analysis team

Sarah Chen	Michael Rodriguez	Jennifer Park	David Thompson	Lisa Wang
Real Estate Analyst	Marketing Manager	Data Analyst	Executive Director	Strategy Consultant



CUSTOMER JOURNEY MAP

ABC COMPANY - HOUSING MARKET ANALYSIS

and executives accessing, analyzing, and utilizing Tableau visualizations for housing market insights to inform strategic decisions, optimize pricing strategies, and enhance market competitiveness.

Engage Deep data exploration	Engage Pattern identification	Engage Cross-validation	Exit Insights extraction	Exit Decision making	Extend Implementation	Extend Monitoring results	Extend Continuous improvement	Extend Knowledge sharing
xamine Age Distribution er reviews Scenario 3: pie art of house age distribution renovation status	**Study Feature Correlations** User analyzes Scenario 4: grouped bar chart of house age vs bathrooms, bedrooms, and floors	**Cross-Reference Data** User compares insights across multiple scenarios to validate patterns and correlations	**Generate Insights** User synthesizes findings into actionable insights about market trends and pricing factors	**Strategic Planning** User applies insights to develop pricing strategies, investment recommendations, or marketing approaches	**Execute Strategy** User implements decisions based on analysis in real estate operations or marketing campaigns	**Track Performance** User monitors outcomes of implemented strategies against market performance	**Refine Analysis** User returns to dashboard with new data or questions based on real-world results	**Share Knowledge** User presents findings to stakeholders and contributes to organizational learning
ings: Pie chart segments, gend, percentage displays **aces:** Scenario 3 visualization **ople:** Subject matter experts	**Things:** Grouped bar charts, multi-dimensional filters, drill-down options **Places:** Scenario 4 visualization **People:** Real estate professionals	**Things:** Multiple dashboard views, comparison tools, notes feature **Places:** Integrated workspace **People:** Validation team members	**Things:** Export functions, reporting tools, presentation software **Places:** Report generation area **People:** Report reviewers	**Things:** Meeting rooms, presentation displays, strategic planning documents **Places:** Conference rooms, executive offices **People:** Executives, decision makers	**Things:** Implementation tools, CRM systems, marketing platforms **Places:** Operational environments **People:** Operations teams, clients	**Things:** Performance dashboards, KPI tracking tools, comparison reports **Places:** Monitoring systems **People:** Performance analysts	**Things:** Updated datasets, new visualizations, feedback systems **Places:** Enhanced dashboard **People:** Data team, end users	**Things:** Presentation materials, knowledge base, training resources **Places:** Training rooms, documentation systems **People:** Colleagues, trainees, stakeholders
elp me see the relationship tween house age and novation decisions	Help me identify patterns between house features and age distributions	Help me validate insights across multiple data perspectives	Help me transform data patterns into actionable business insights	Help me apply insights to create competitive advantages in the market	Help me successfully execute data-driven strategies	Help me measure the effectiveness of my data-driven decisions	Help me continuously improve analysis accuracy and relevance	Help me build organizational capability and knowledge around housing market analysis
e chart effectively mmunicates age distribution ttems at a glance	Multi-dimensional analysis reveals complex relationships between house features and market trends	"Aha moments" when patterns align across different visualizations, building confidence in insights	Satisfaction from transforming complex data into clear, actionable recommendations	Executive buy-in and appreciation for data-driven strategic recommendations	Successful implementation leads to improved market performance and competitive advantage	Validation that data-driven decisions outperform traditional approaches	Continuous learning cycle improves both analysis skills and business outcomes	Recognition for bringing valuable insights to the organization and industry
e chart segments may be too milar in size, making precise mparisons challenging	Information overload from multiple variables makes it hard to extract clear conclusions	Conflicting patterns between visualizations create uncertainty about data reliability	Pressure to generate insights quickly may lead to oversimplified or incomplete analysis	Resistance from stakeholders who prefer traditional decision-making approaches	Implementation challenges when insights don't translate smoothly to operational reality	Market volatility makes it difficult to attribute performance to specific strategic changes	Analysis becomes stale quickly as market conditions change rapidly	Difficulty in scaling knowledge transfer across different skill levels within organization
ow might we use different chart pes or add data labels to prove clarity of comparisons?	How might we create simplified summary views alongside detailed multi-variable analysis?	How might we build confidence indicators or data quality scores into visualizations?	How might we create automated insight generation to supplement human analysis?	How might we provide change management support and stakeholder education programs?	How might we create implementation playbooks and best practice guides?	How might we develop more sophisticated attribution models and control groups?	How might we implement real-time data updates and automated refresh schedules?	How might we create role-based training programs and mentorship systems?

Based on stakeholder interviews and analysis requirements from ABC Company Housing Market Analysis team

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3.2 Solution Requirement

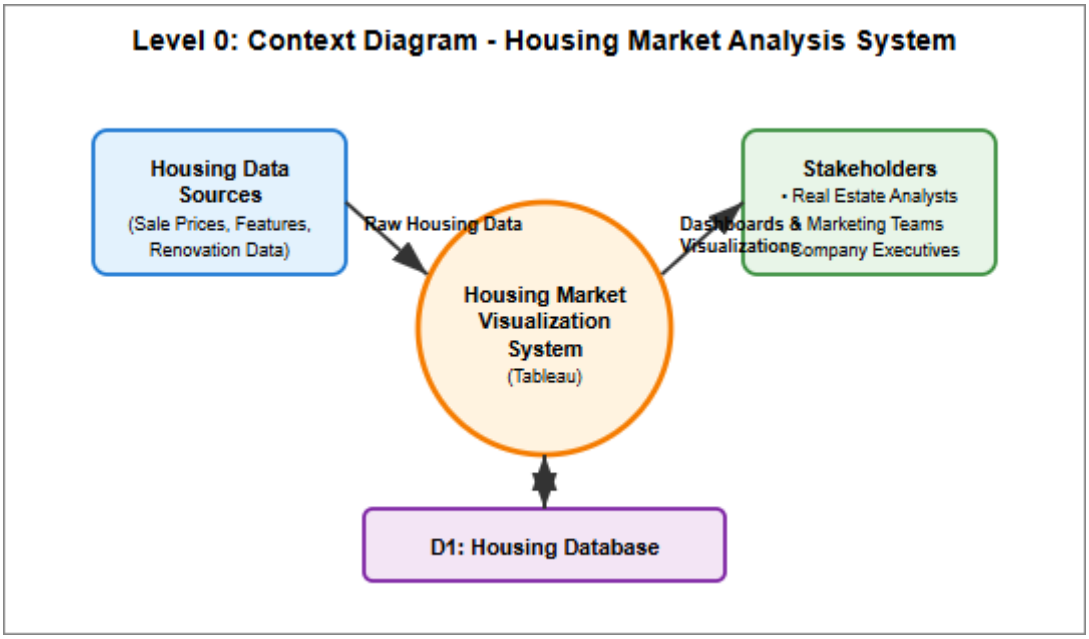
Functional Requirements:

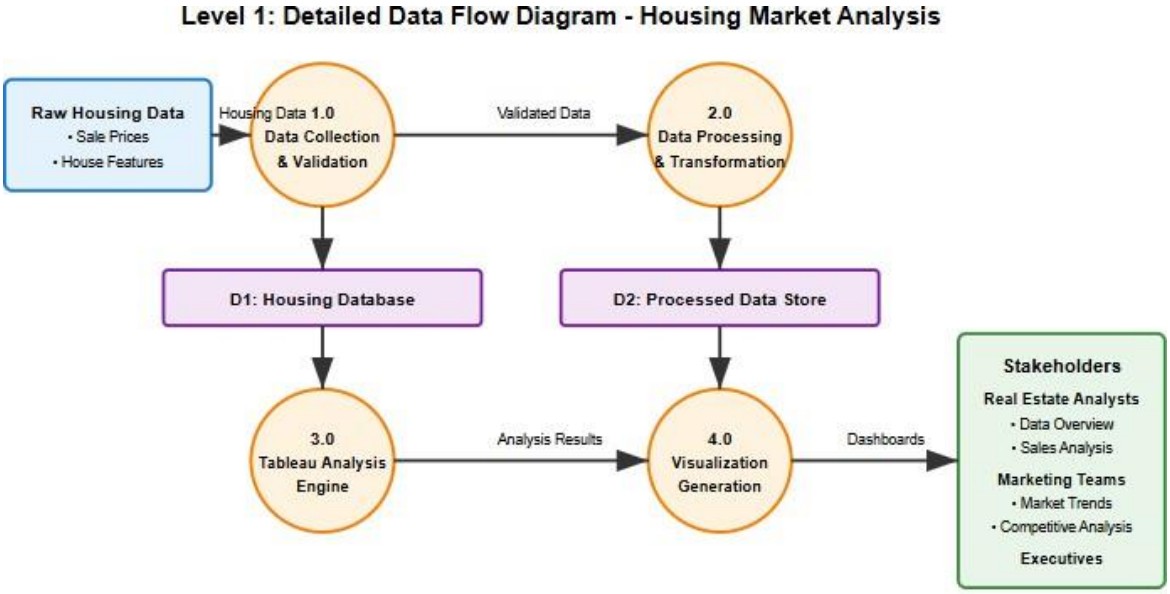
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Data Import and Processing	Import housing dataset into Tableau
		Data transformation and cleaning
		Validate data quality and completeness
FR-2	Interactive Dashboard Creation	Create overall data overview dashboard
		Develop sales by renovation years histogram
		Build house age distribution pie chart
		Design grouped bar chart for house features
FR-3	Data Visualization and Analytics	Generate average sales price calculations
		Calculate total area metrics
		Analyze renovation impact on pricing
		Create age-based distribution analytics
FR-4	Reporting and Export Functionality	Export visualizations as images/PDFs
		Generate summary reports
		Create stakeholder presentation materials

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Dashboard should be intuitive and easy to navigate for real estate analysts, marketing teams, and executives with minimal training required
NFR-2	**Security**	Ensure data privacy and secure access to housing market data with appropriate user authentication and authorization controls
NFR-3	**Reliability**	System should provide consistent and accurate visualizations with 99.5% uptime and reliable data processing capabilities
NFR-4	**Performance**	Dashboard should load within 3 seconds and handle interactive filtering smoothly even with large datasets containing thousands of housing records
NFR-5	**Availability**	Tableau dashboard should be accessible 24/7 to stakeholders across different time zones with minimal scheduled maintenance downtime
NFR-6	**Scalability**	Solution should accommodate growing datasets and additional visualization requirements as ABC Company expands its housing market analysis

3.3 Data Flow Diagram





Scenarios Supported:

1. Overall Data Overview - Summary statistics and key metrics
2. Total Sales by Years Since Renovation - Histogram analysis
3. House Age Distribution by Renovation Status - Pie chart visualization
4. House Age by Bathrooms, Bedrooms, Floors - Grouped bar charts

Data Flows: Raw Data → Validation → Processing → Analysis → Visualization → Stakeholders

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Real Estate Analyst	Data analysis & Visualization	USN-1	As a real estate analyst, I can view the overall data overview dashboard to understand the dataset scale and key metrics	I can see count of housing records, average sales price, and total basement area	High	Sprint-1
Real Estate Analyst	Renovation Impact analysis	USN-2	As a real estate analyst, I can analyze total sales by years since renovation through histogram visualization	I can identify correlation between renovation timing and price ranges	High	Sprint-1
Real Estate Analyst	House Age Distribution	USN-3	As a real estate analyst, I can view house age distribution by renovation status through pie chart	I can assess age characteristics and renovation prevalence	HIgh	Sprint-1
Real Estate Analyst	Feature analysis	USN-4	As a real estate analyst, I can analyze house age distribution by number of bathrooms, bedrooms, and floors	I can identify patterns in housing characteristics over time	High	Sprint-2
Real Estate Analyst	Interactive dashboard	USN-5	As a real estate analyst, I can access an interactive dashboard combining all visualizations	I can navigate between different views and filter data dynamically	Medium	Sprint-2

3.4 Technology Stack

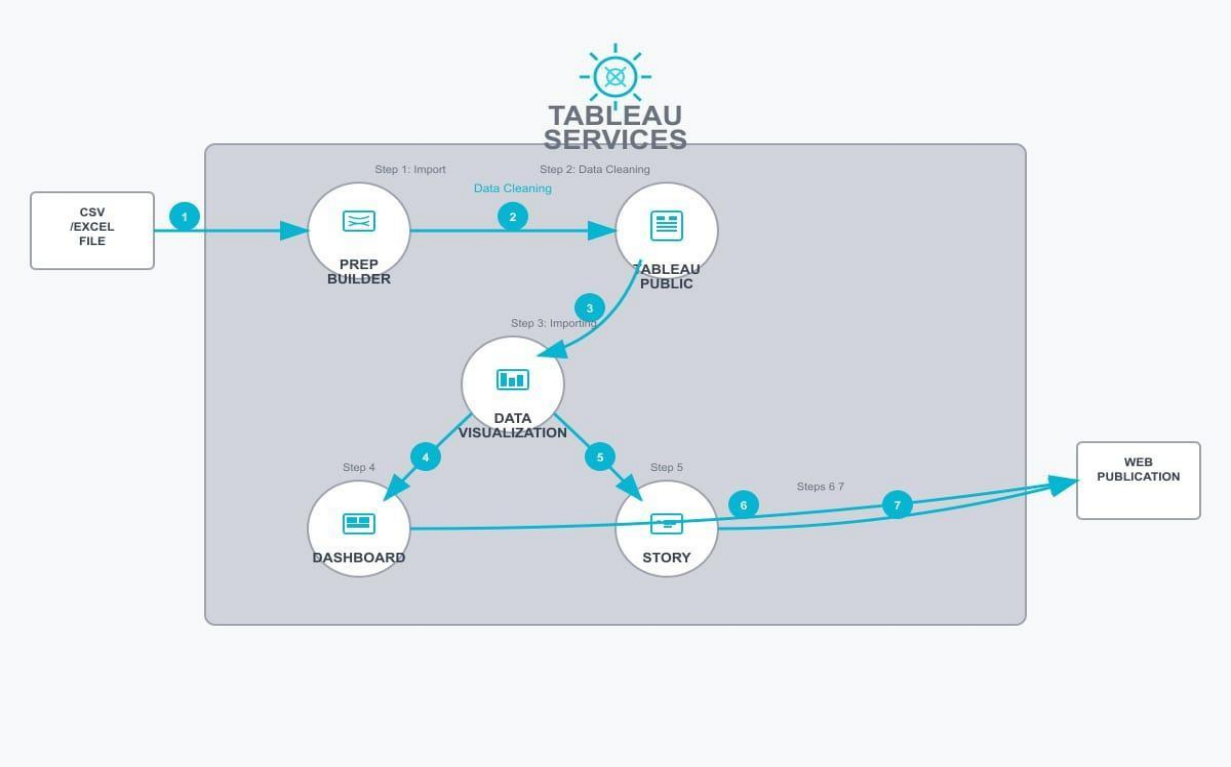
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web-based dashboards for viewing and interaction	Tableau Public
2.	Application Logic-1	Data preprocessing and transformation workflows	Tableau Prep Builder
3.	Application Logic-2	Interactivity using filters, parameters, and actions	Tableau Filters, Parameters, Actions
4.	Dashboard/Story Logic	Logical flow of insights using story features	Tableau Story Feature
5.	Data Source	Flat files used as housing market datasets	CSV
6.	File Storage	Housing datasets stored locally	Local File System / Google Drive

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	yes	Tableau Public
2.	Security Implementations	N/A	N/A
3.	Scalable Architecture	Can scale by publishing to Tableau Cloud for wider access	Tableau Public
4.	Availability	Dashboards available online 24/7	Tableau Public
5	Performance	Good \ Better performance	Tableau Public

Technical Architecture:



4. PROJECT DESIGN

4.1 Problem Solution Fit

4.2 Proposed Solution

S. No	Parameter	Description
	Problem Statement (Problem to be solved)	The housing market often lacks clarity regarding how property renovations impact sales prices over time. Buyers and sellers struggle to assess the return on investment for renovations due to the absence of clear data analytics. This limits effective decision-making and market efficiency.
2.	Idea / Solution description	Our project addresses this issue by visualizing total sales in relation to the number of years since a house was renovated. Using Tableau, we created a histogram that displays how recently renovated properties correlate with various sales price ranges. This visualization enables stakeholders to identify patterns and trends in buyer preferences and renovation impact.
3.	Novelty / Uniqueness	This solution stands out by offering an interactive, visual data analysis centered around the renovation timeline—a variable rarely explored in depth in traditional market reports. It brings actionable insights to the forefront using clear, user-friendly dashboards, making the data more accessible to both experts and laypeople.
4.	Social Impact / Customer Satisfaction	he solution empowers homebuyers with valuable insights into how renovation age affects home value, leading to more informed purchasing decisions. It also helps sellers and agents time renovations effectively to increase profits. Overall, it supports transparency, enhances consumer trust, and contributes to better housing policy and urban planning.
5.	Business Model (Revenue Model)	The solution can be monetized through a subscription-based model targeting real estate agencies, property investors, and developers. Additional income streams include custom dashboard development, real-time market reporting, and integration services with existing property listing platforms or CRMs.
6.	Scalability of the Solution	This model can be extended to include multiple variables such as location, square footage, number of bedrooms, or neighborhood crime rates. It can also scale geographically to analyze real estate markets across different cities or countries. With integration into national real estate databases, it can provide ongoing, large-scale market intelligence.

Problem statement

Problem Statement (Problem to be Solved):
The housing market often lacks clarity regarding how property renovations impact sales prices over time. Buyers and sellers struggle to assess the return on investment for renovations due to the absence of clear data analytics. This limits effective decision-making and market efficiency

2.idea/solution description

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Focus on J&P, tap into BE, understand RC

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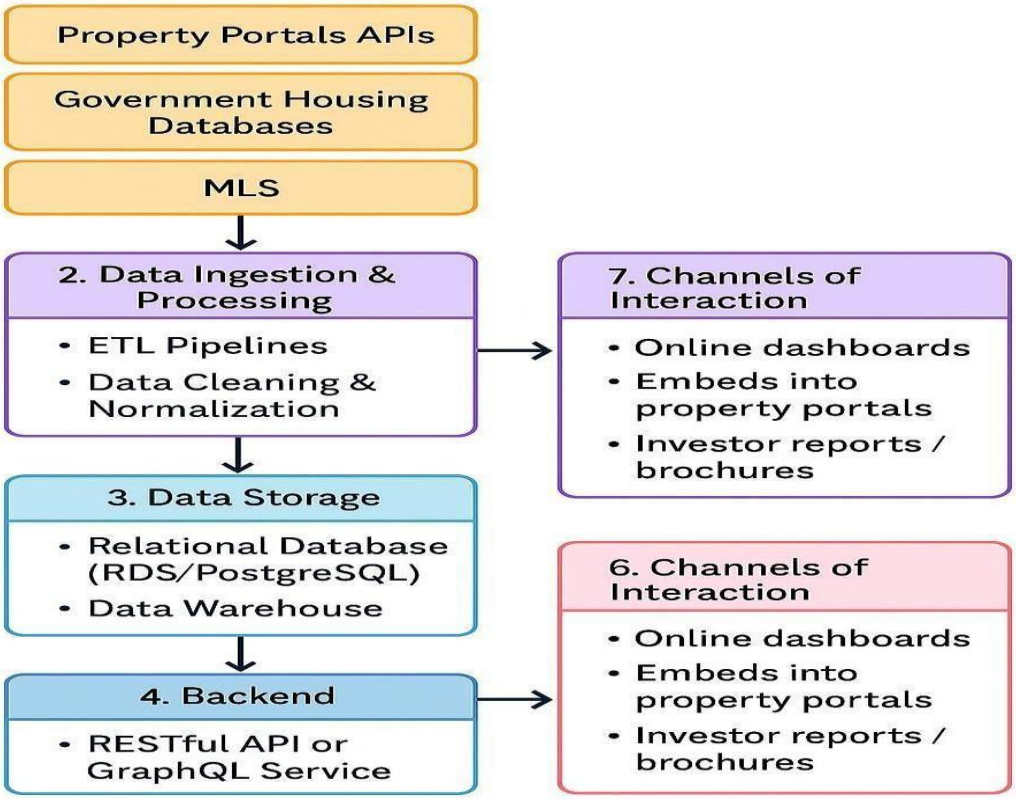
Focus on J&P, tap into BE, understand RC

4.3 Solution Architecture



5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection & Overview	USN-1	As a stakeholder, I want to collect and transform housing market data to create a comprehensive dataset overview.	1	High	Team Member -2
Sprint-1	Data Analysis Setup	USN-2	As a real estate analyst, I want to load housing data into Tableau for visualization and analysis.	2	High	Team Member -2
Sprint-1	Data Preprocessing	USN-3	As a user, I want to clean and prepare housing data including sales prices, renovation years, and house features.	2	High	Team Member -3
Sprint-2	Renovation Impact Analysis	USN-4	As a stakeholder, I want to visualize total sales by years since renovation to understand renovation impact on pricing.	3	High	Team Member -4

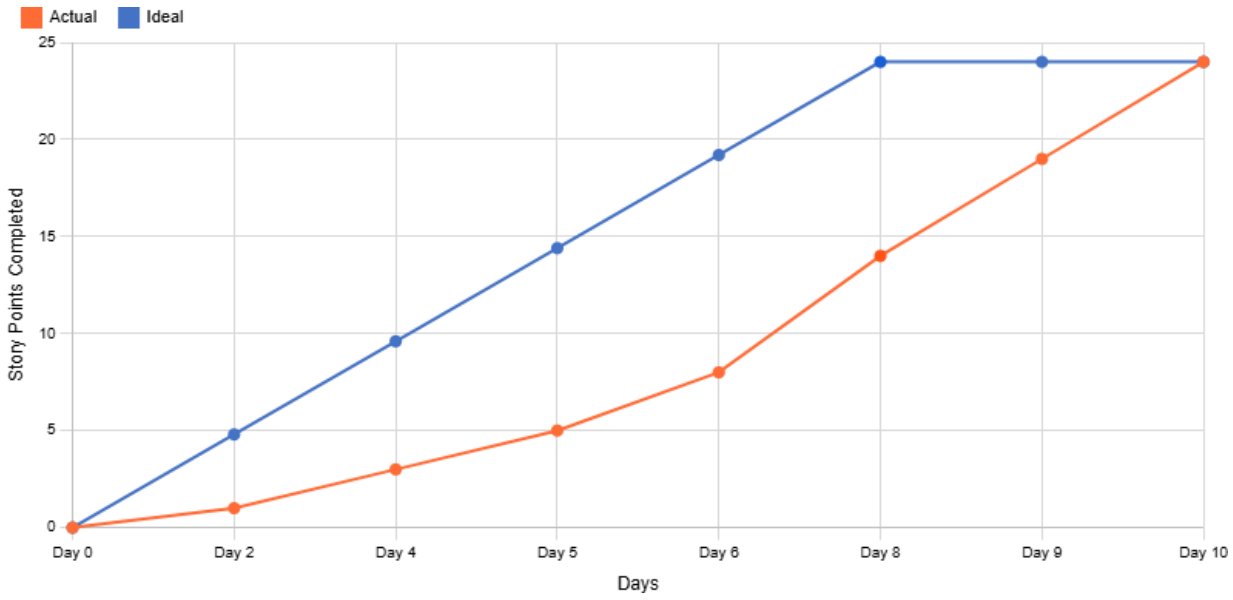
Sprint-2	Age Distribution Analysis	USN-5	As a real estate analyst, I want to create a pie chart showing house age distribution by renovation status.	3	Medium	Team Member -4
Sprint-2	Feature-Based Analysis	USN-6	As a marketing team member, I want to analyze house age distribution by number of bathrooms, bedrooms, and floors.	3	High	Team Member -4
Sprint-2	Dashboard Creation	USN-7	As an executive stakeholder, I want an interactive dashboard combining all visualizations for strategic decision making.	5	High	Team Member -3
Sprint-2	Story Development	USN-8	As a company executive, I want a Tableau story that presents insights in a narrative format for presentations.	5	Medium	Team Member -3

Project Tracker, Velocity & Burndown Chart

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed	Sprint Release Date
Sprint-1	8	5 Days	16 June 2025	20 June 2025	5	20 June 2025

Sprint-2	18	5 Days	21 June 2025	25 June 2025	19	25 June 2025

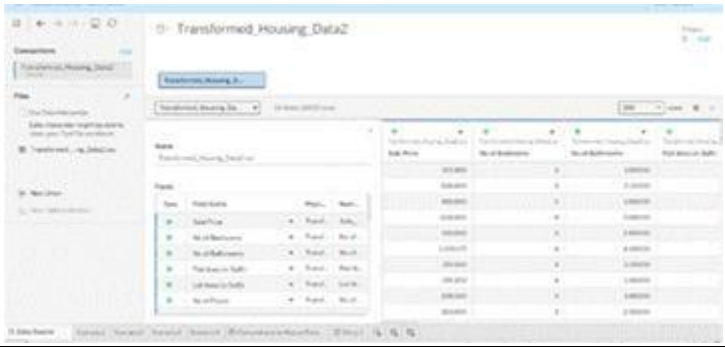
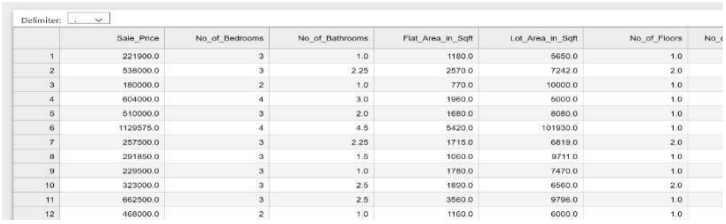
Burndown Chart



6. FUNCTIONAL AND PERFORMANCE TESTING

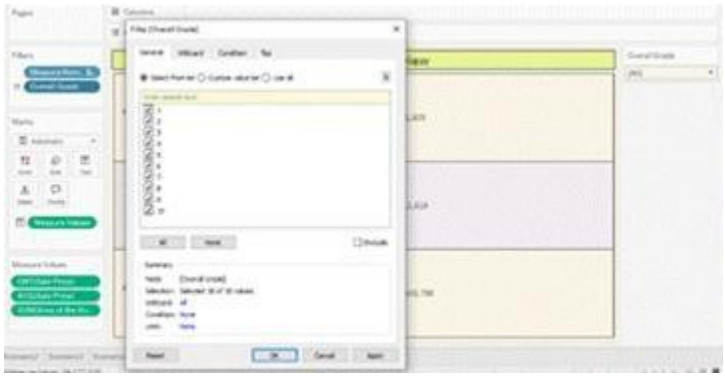
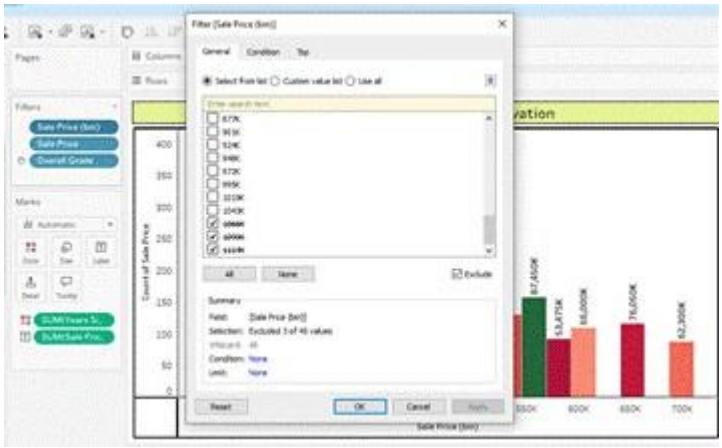
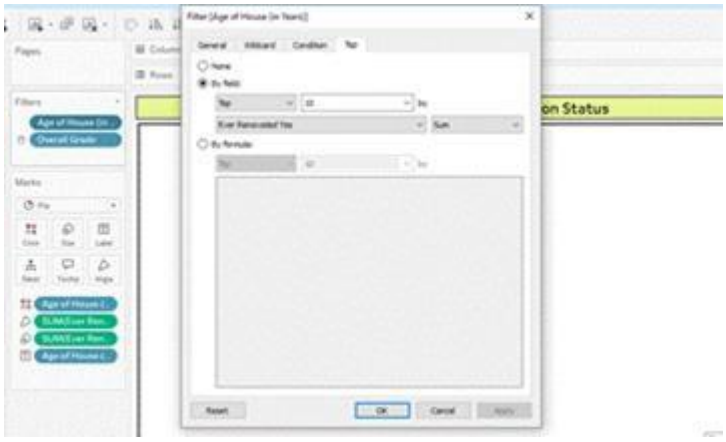
6.1 Performance Testing

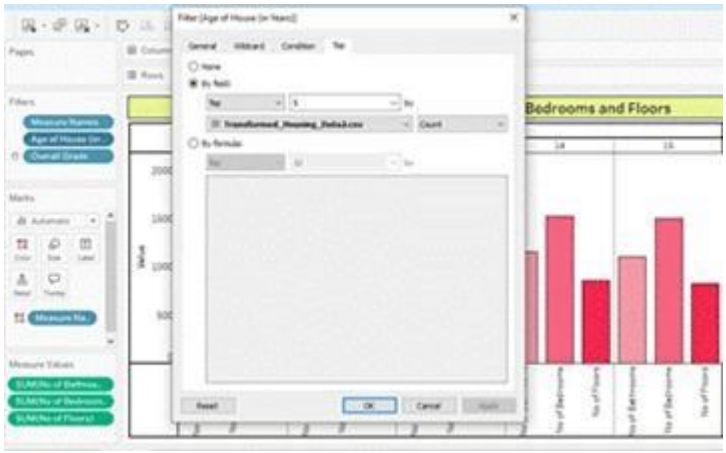
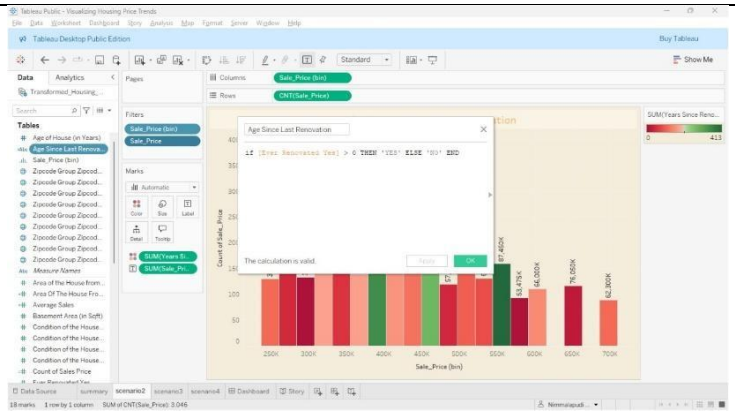
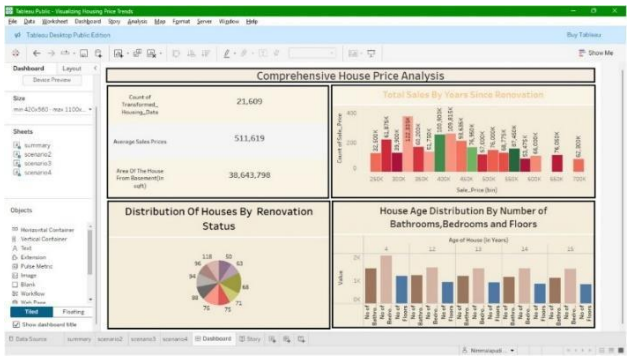
Project team shall fill the following information in model performance testing template.

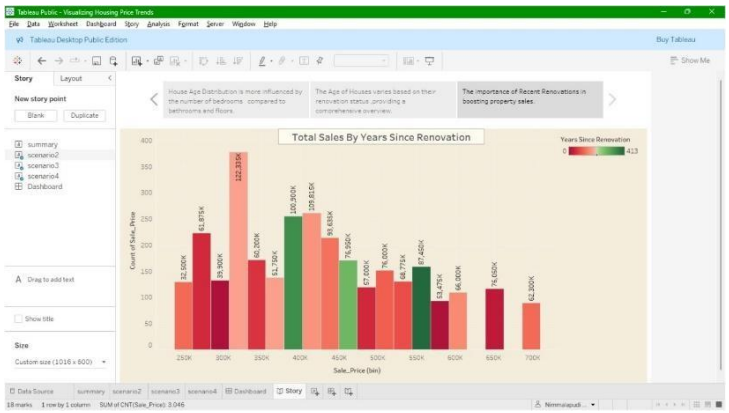
S.No.	Parameter	Screenshot / Values
1.	Data Rendered	Data contains 33 fields and 21609 rows 
2.	Data Preprocessing	Identified 11 duplicate rows , removed unnecessary columns like  zipcodes, no missing or null values.

Delimiter: ,

	Sale_Price	No_of_Bedrooms	No_of_Bathrooms	Flat_Area_in_Sqft	Lot_Area_in_Sqft	No_of_Floors
1	221900.0	3	1.0	1180.0	5650.0	1.0
2	538000.0	3	2.25	2570.0	7242.0	2.0
3	180000.0	2	1.0	770.0	10000.0	1.0
4	604000.0	4	3.0	1960.0	5000.0	1.0
5	510000.0	3	2.0	1680.0	8080.0	1.0
6	1129575.0	4	4.5	5420.0	101930.0	1.0
7	257500.0	3	2.25	1715.0	6819.0	2.0
8	291850.0	3	1.5	1060.0	9711.0	1.0
9	229500.0	3	1.0	1780.0	7470.0	1.0
10	323000.0	3	2.5	1890.0	6560.0	2.0
11	662500.0	3	2.5	3560.0	9796.0	1.0
12	468000.0	2	1.0	1160.0	6000.0	1.0

3.	Utilization of Filters	For scenario – 1  For scenario – 2  For scenario – 3 

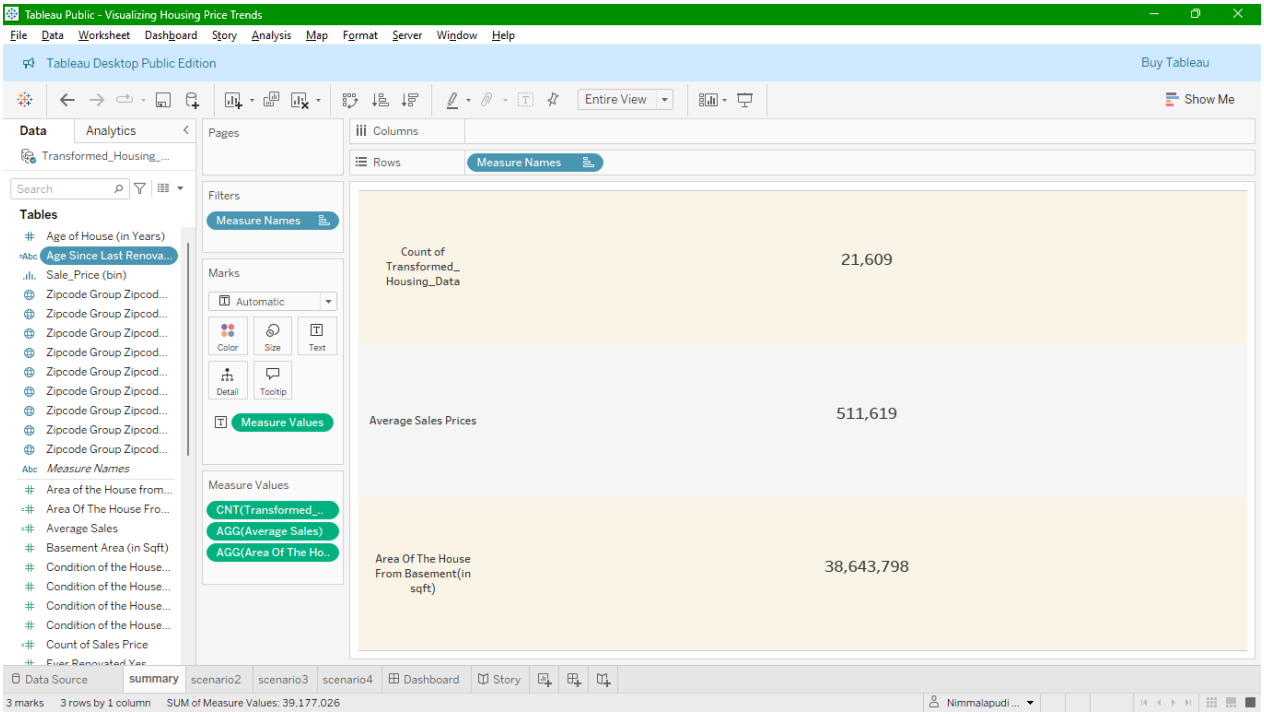
		For scenario – 4 
4.	Calculation fields Used	
5.	Dashboard design	No of Visualizations / Graphs – 4  Dashboard Link : https://public.tableau.com/views/VisualizingHousingPriceTrends/Dashboard?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

6	Story Design	No of Visualizations / Graphs – 4  Story link : https://public.tableau.com/views/VisualizingHousingPriceTrends/Story?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

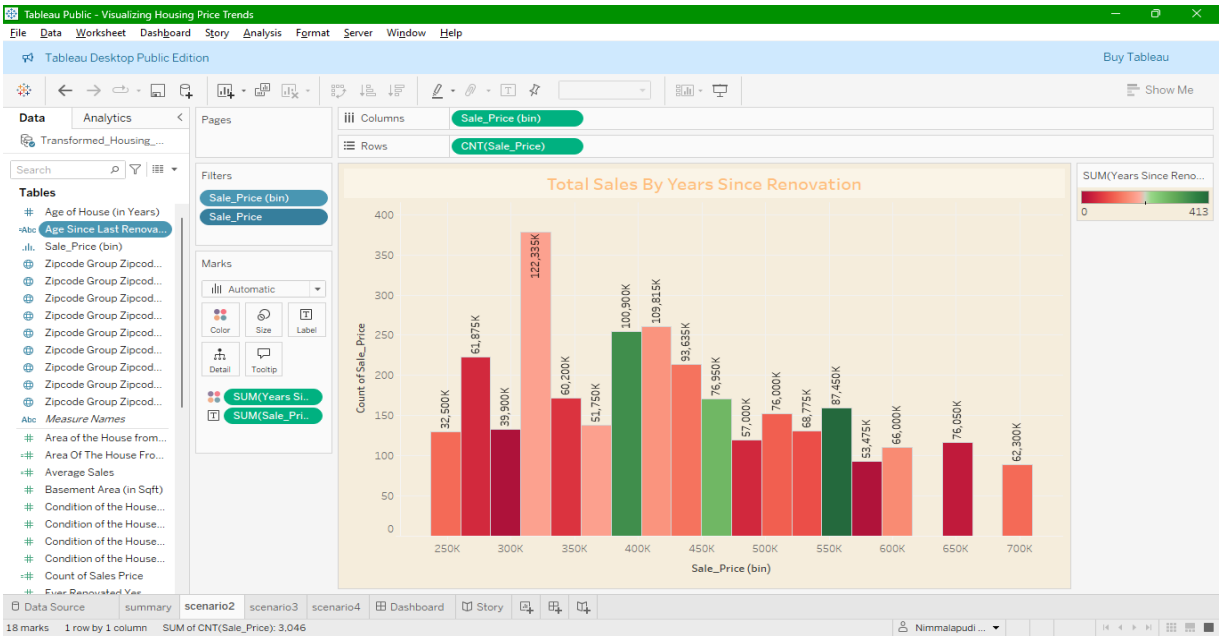
7. RESULTS

7.1 Output Screenshots

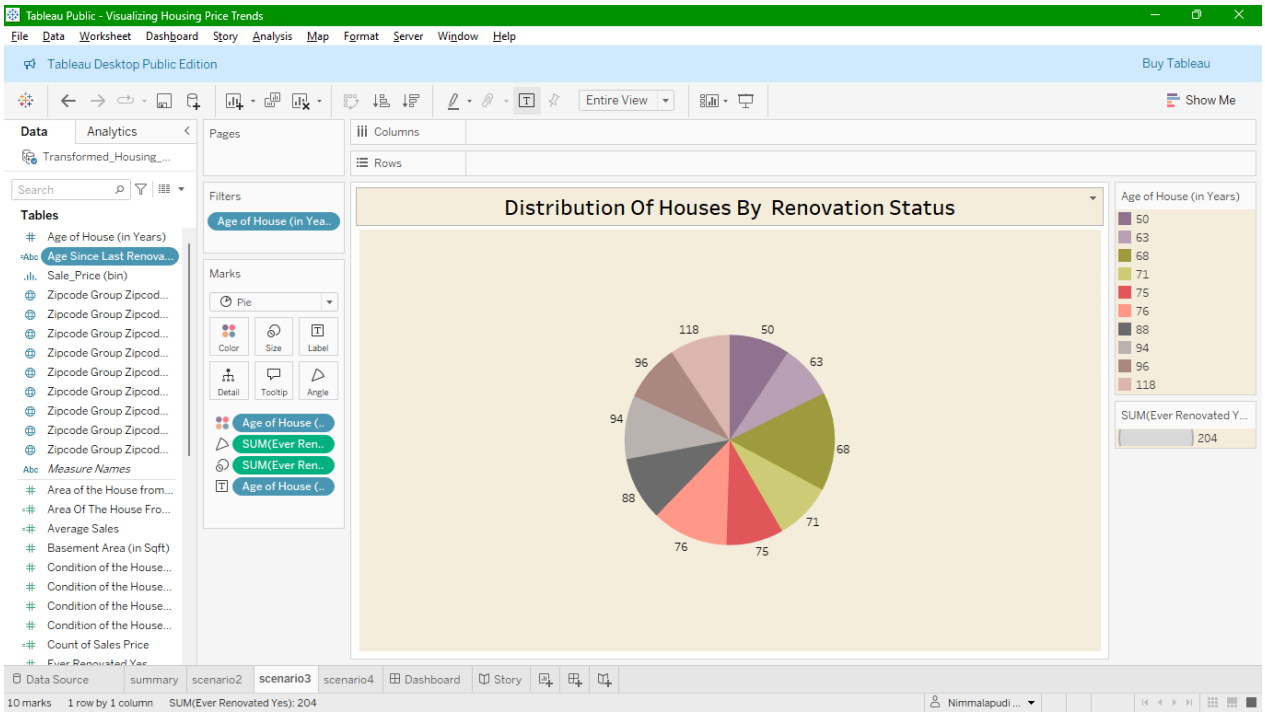
Scenario-1



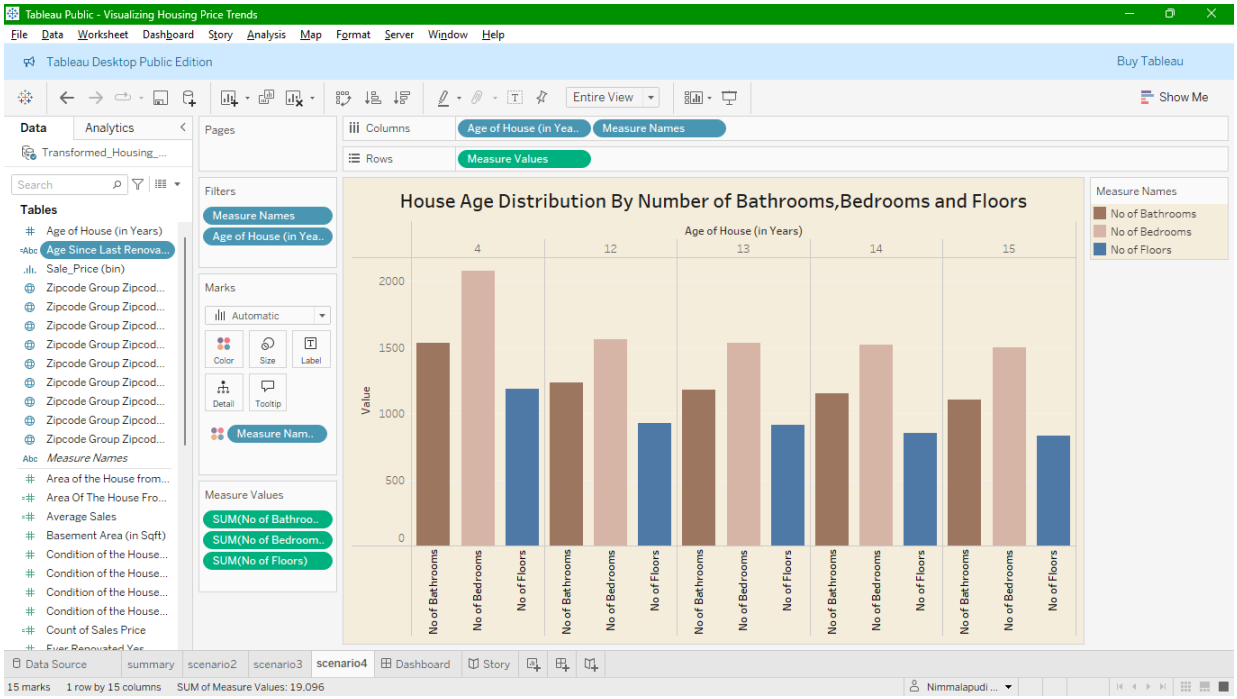
Scenario-2



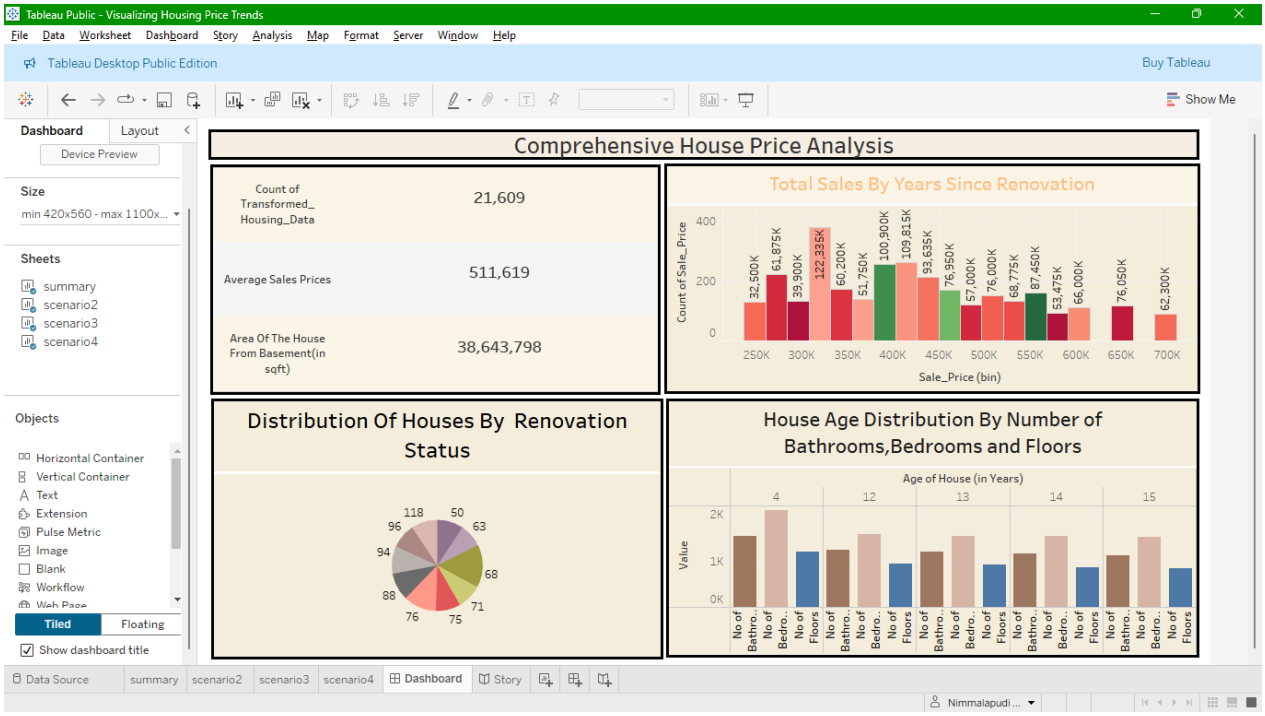
Scenario-3



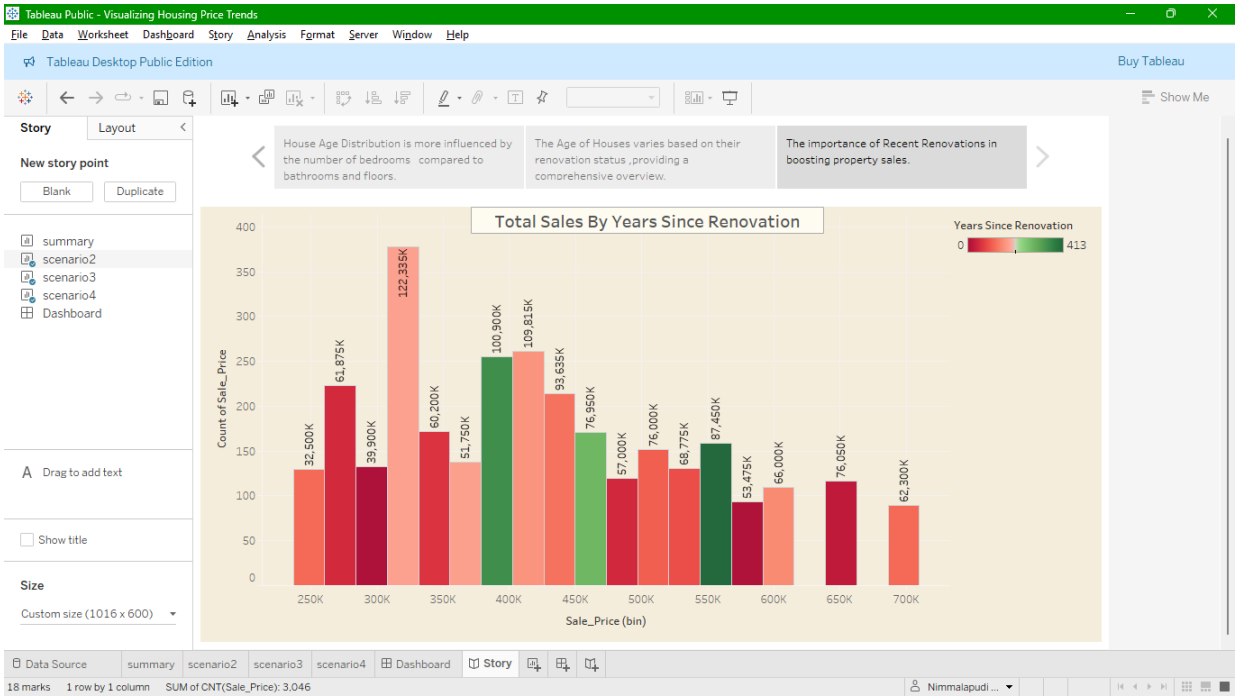
Scenario-4



Dashboard



Story



8. ADVANTAGES & DISADVANTAGES

8.1 ADVANTAGES

1. **Visual Clarity**: Tableau enables intuitive, easy-to-understand visualizations for complex housing datasets.

2. **Interactive Dashboards**: Users can filter data dynamically based on features like renovations, age, or number of rooms.

3. **Business Insights**: Helps stakeholders identify trends and patterns that influence pricing strategies and buyer behavior.

4. **Time-Efficient**: Reduces manual analysis through automated and visual insights.

5. **Storytelling Capability**: Tableau's story feature allows presenting data as step-by-step narratives.

6. **Non-technical Accessibility**: Designed for business users with minimal technical skills.

7. **Improves Decision Making**: Enhances strategic planning through data-driven recommendations.

8. **Flexible Data Sources**: Supports a wide range of formats like Excel, CSV, and cloud-based data.

8.1 DISADVANTAGES

1. **No Predictive Modeling**: Tableau lacks built-in machine learning or forecasting capabilities.

2. **Dependence on Data Quality**: Inaccurate or unclean data can lead to misleading visualizations.

3. **Limited Data Cleaning**: Complex data transformations require external tools like Tableau Prep.

4. **Performance Issues**: Can slow down with very large datasets if not optimized properly.

5. **Story Limitations**: Tableau's story feature is static and not as flexible as interactive dashboards.

6. **Cost (for full version)**: Tableau Creator licenses and cloud solutions may be expensive.

7. **No Native Real-Time Streaming**: Tableau is not ideal for real-time dynamic updates.

8. **Requires Training**: Users need time to become proficient in designing meaningful dashboards.

9. CONCLUSION

This project demonstrates the effective use of **Tableau** and **Tableau Prep Builder** to analyze and visualize housing market data in a meaningful and interactive way. By examining patterns related to **sale prices, renovations, house age, and structural features**, the project reveals key insights that support a deeper understanding of real estate trends.

Through a combination of **interactive dashboards** and **story-driven visualizations**, the project transforms raw datasets into easily interpretable insights. It proves how data visualization can **enhance clarity, support decision-making**, and provide a **structured narrative** around complex datasets. The approach used ensures the findings are accessible to both technical and non-technical users, making it a valuable asset for real estate data analysis.

10. FUTURE SCOPE

1. **Add Predictive Analytics**: Integrate machine learning to forecast housing prices.

2. **Use Real-Time APIs**: Connect to real estate APIs (like Zillow or Realtor.com) for live data updates.

3. **Enhance with Maps**: Use Tableau's map visualizations for geospatial housing trends.

4. **Deploy on Tableau Server**: Expand collaboration through server-hosted dashboards.

5. **Include External Data**: Add economic, demographic, or regional data to enrich insights.

6. **Mobile Dashboards**: Optimize dashboards for mobile accessibility.
7. **Automated Data Refresh**: Schedule regular updates from connected data sources.
8. **Multi-User Interaction**: Enable tailored views for different user types like analysts, buyers, or planners.

11. APPENDIX

Dataset Link :

https://www.kaggle.com/datasets/rituparnaghosh18/transformed-housing-data-2

Dashboard Link :

https://public.tableau.com/views/VisualizingHousingPriceTrends/Dashboard?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

Story Link :

https://public.tableau.com/views/VisualizingHousingPriceTrends/Story?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

Project Demo Link :

https://drive.google.com/file/d/1T0GZEivxXbg9HlnctpyagDtSkV0laL02/view?usp=sharing

Project GitHub Link :