

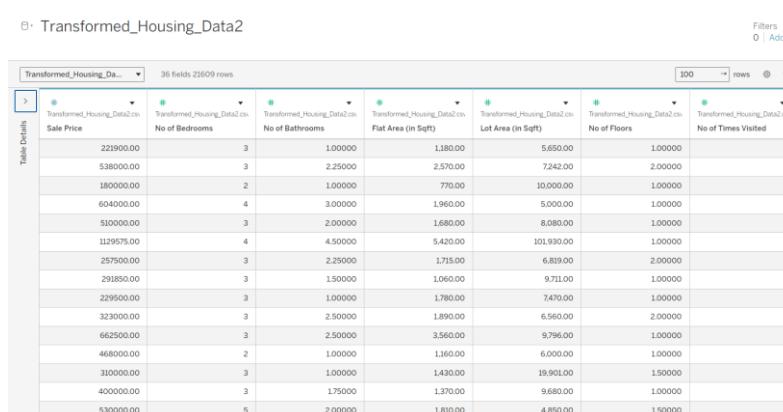
Project Development Phase

Performance Test

Date	10 February 2026
Team ID	LTVIP2026TMIDS25024
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	

Model Performance Testing:

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

S.No.	Parameter	Screenshot / Values
1	Data Rendered	<p>The dataset Transformed_Housing_Data2.csv was successfully loaded and rendered in Tableau Desktop. All records were displayed correctly without any errors. Tableau automatically classified the dataset into dimensions and measures, enabling accurate visualization and analysis.</p> 
2	Data Preprocessing	<p>Data preprocessing steps included verifying data types, cleaning dataset, and validating records. Numerical fields such as Sale Price and Basement Area were correctly identified as measures, while categorical fields such as Renovation Status, Bedrooms, Bathrooms, and Floors were identified as dimensions. No major missing or invalid data was found.</p>

		<p>④ - Transformed_Housing_Data2</p> <p>Transformed_Housing_Data2.csv 36 fields 21609 rows</p> <table border="1"> <thead> <tr> <th>Name</th><th>Transformed_Housing_Data2.csv</th><th>Transformed_Housing_Data2.csv</th><th>Transformed_Housing_Data2.csv</th><th>Transformed_Housing_Data2.csv</th><th>Transformed_Housing_Data2.csv</th></tr> <tr> <th>Description</th><td>No description available.</td><th>Sale Price</th><th>No of Bedrooms</th><th>No of Bathrooms</th><th>Flat Area (in Sqft)</th><th>Lot Area (in Sqft)</th></tr> </thead> <tbody> <tr><td></td><td></td><td>221900.00</td><td>3</td><td>1.00000</td><td>1,180.00</td><td>5</td></tr> <tr><td></td><td></td><td>538000.00</td><td>3</td><td>2.25000</td><td>2,570.00</td><td>7</td></tr> <tr><td></td><td></td><td>180000.00</td><td>2</td><td>1.00000</td><td>770.00</td><td>10</td></tr> <tr><td></td><td></td><td>604000.00</td><td>4</td><td>3.00000</td><td>1,960.00</td><td>5</td></tr> <tr><td></td><td></td><td>510000.00</td><td>3</td><td>2.00000</td><td>1,680.00</td><td>8</td></tr> <tr><td></td><td></td><td>1129575.00</td><td>4</td><td>4.50000</td><td>5,420.00</td><td>101</td></tr> <tr><td></td><td></td><td>257500.00</td><td>3</td><td>2.25000</td><td>1,715.00</td><td>6</td></tr> <tr><td></td><td></td><td>291850.00</td><td>3</td><td>1.50000</td><td>1,060.00</td><td>1</td></tr> <tr><td></td><td></td><td>229500.00</td><td>3</td><td>1.00000</td><td>1,780.00</td><td>7</td></tr> <tr><td></td><td></td><td>323000.00</td><td>3</td><td>2.50000</td><td>1,890.00</td><td>6</td></tr> <tr><td></td><td></td><td>662500.00</td><td>3</td><td>2.50000</td><td>3,560.00</td><td>9</td></tr> <tr><td></td><td></td><td>468000.00</td><td>2</td><td>1.00000</td><td>1,160.00</td><td>6</td></tr> <tr><td></td><td></td><td>310000.00</td><td>3</td><td>1.00000</td><td>1,430.00</td><td>19</td></tr> <tr><td></td><td></td><td>400000.00</td><td>3</td><td>1.75000</td><td>1,370.00</td><td>9</td></tr> <tr><td></td><td></td><td>530000.00</td><td>5</td><td>2.00000</td><td>1,810.00</td><td>4</td></tr> </tbody> </table>	Name	Transformed_Housing_Data2.csv	Transformed_Housing_Data2.csv	Transformed_Housing_Data2.csv	Transformed_Housing_Data2.csv	Transformed_Housing_Data2.csv	Description	No description available.	Sale Price	No of Bedrooms	No of Bathrooms	Flat Area (in Sqft)	Lot Area (in Sqft)			221900.00	3	1.00000	1,180.00	5			538000.00	3	2.25000	2,570.00	7			180000.00	2	1.00000	770.00	10			604000.00	4	3.00000	1,960.00	5			510000.00	3	2.00000	1,680.00	8			1129575.00	4	4.50000	5,420.00	101			257500.00	3	2.25000	1,715.00	6			291850.00	3	1.50000	1,060.00	1			229500.00	3	1.00000	1,780.00	7			323000.00	3	2.50000	1,890.00	6			662500.00	3	2.50000	3,560.00	9			468000.00	2	1.00000	1,160.00	6			310000.00	3	1.00000	1,430.00	19			400000.00	3	1.75000	1,370.00	9			530000.00	5	2.00000	1,810.00	4
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3	Utilization of Filters	Interactive filters were applied to enhance dashboard usability and analysis. Filters such as Sale Price, House Age, and Renovation Status were used to allow users to dynamically explore housing data and view filtered visualizations. The filters responded efficiently without performance issues.																																																																																																																						
4	Calculation Fields Used	Tableau calculation features were used to generate aggregated metrics such as COUNT(Number of Records), AVG(Sale Price), and SUM(Basement Area). These calculated values were used in KPI indicators and charts to provide meaningful insights.																																																																																																																						
5	Dashboard Design	No of Visualizations / Graphs: 6																																																																																																																						
Visualizations included:		<h3>Comprehensive House Data Analysis</h3> <div style="display: flex; justify-content: space-around;"> <div style="width: 45%;"> <p>Sheet 1</p> <table border="1"> <tbody> <tr><td>Area of the House from Basement (in Sqft)</td><td>38,643,798</td></tr> <tr><td>No of Times Visited</td><td>5,064</td></tr> <tr><td>Sum of Sale Price</td><td>11,055,565,423</td></tr> </tbody> </table> </div> <div style="width: 45%;"> <p>Total sales by year since renovation</p> <table border="1"> <thead> <tr><th>Sale Price (bin)</th><th>Count of Sale Pr...</th></tr> </thead> <tbody> <tr><td>130K</td><td>130</td></tr> <tr><td>270K</td><td>39</td></tr> <tr><td>324K</td><td>439</td></tr> <tr><td>378K</td><td>255</td></tr> <tr><td>432K</td><td>171</td></tr> <tr><td>486K</td><td>152</td></tr> <tr><td>540K</td><td>159</td></tr> <tr><td>594K</td><td>117</td></tr> <tr><td>648K</td><td>117</td></tr> <tr><td>1.159M</td><td>1,159</td></tr> </tbody> </table> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="width: 45%;"> <p>Distribution of house age by renovation status</p> </div> <div style="width: 45%;"> <p>House age distribution by no of bathrooms,bedrooms and no of floors</p> <table border="1"> <thead> <tr><th>Age of House (in Years)</th><th>Value</th></tr> </thead> <tbody> <tr><td>50</td><td>0.5K</td></tr> <tr><td>51</td><td>1K</td></tr> <tr><td>59</td><td>0.5K</td></tr> <tr><td>64</td><td>0.5K</td></tr> <tr><td>71</td><td>0.5K</td></tr> </tbody> </table> </div> </div>	Area of the House from Basement (in Sqft)	38,643,798	No of Times Visited	5,064	Sum of Sale Price	11,055,565,423	Sale Price (bin)	Count of Sale Pr...	130K	130	270K	39	324K	439	378K	255	432K	171	486K	152	540K	159	594K	117	648K	117	1.159M	1,159	Age of House (in Years)	Value	50	0.5K	51	1K	59	0.5K	64	0.5K	71	0.5K																																																																														
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6	Story Design	No of Visualizations / Graphs: 4
Story included the following scenes:	<p>Story 1</p> <p>• Dataset Overview</p> <p>• Renovation Impact Analysis</p> <p>• House Age Distribution Analysis</p> <p>• Feature-Based Analysis</p> <p>The story was structured logically to explain housing market insights step-by-step.</p>	<p>A simple sheet of visualization based on sales of house data</p> <p>The visualization comparing the sale price of a house based</p> <p>A pie chart to clearly visualize the age of house in years as well</p> <p>The visualization that is estimating the price of a house based on no</p> <p>Age of House (in Years)</p> <ul style="list-style-type: none"> 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 <p>Sum of Years Since Renov.. [19,105]</p>