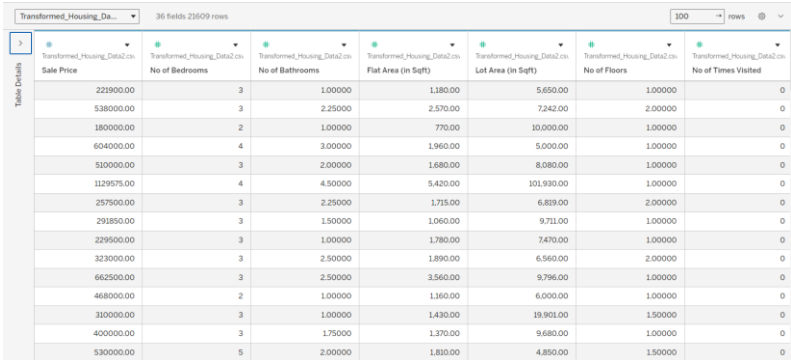


Project Development Phase Performance Test

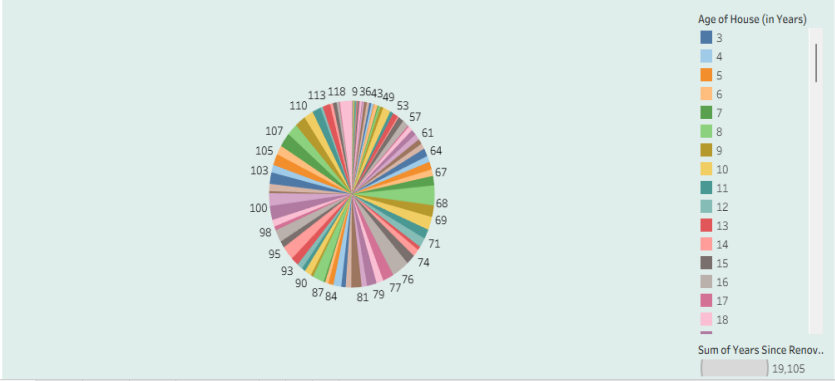
Date	10 February 2026
Team ID	LTVIP2026TMIDS25024
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	

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> <p>Transformed_Housing_Data2</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>

		<div><div>Transformed_Housing_Data2</div><div><div>Transformed_Housing_Data2</div><div>36 fields 21609 rows</div><div>100 rows</div><div>Filters</div></div><div><div>Name: Transformed_Housing_Data2.csv</div><div>Description: No description available.</div><div>Fields</div><table><tr><th>Type</th><th>Field Name</th><th>Phys...</th><th>Rem...</th></tr><tr><td>+</td><td>Sale Price</td><td>Transf...</td><td>Sale...</td></tr><tr><td>+</td><td>No of Bedrooms</td><td>Transf...</td><td>No of ...</td></tr><tr><td>+</td><td>No of Bathrooms</td><td>Transf...</td><td>No of ...</td></tr><tr><td>+</td><td>Flat Area (in Sqft)</td><td>Transf...</td><td>Flat Ar...</td></tr><tr><td>+</td><td>Lot Area (in Sqft)</td><td>Transf...</td><td>Lot Ar...</td></tr><tr><td>+</td><td>No of Floors</td><td>Transf...</td><td>No of ...</td></tr><tr><td>+</td><td>No of Times Visited</td><td>Transf...</td><td>No of ...</td></tr><tr><td>+</td><td>Overall Grade</td><td>Transf...</td><td>Overall...</td></tr><tr><td>+</td><td>Area of the House from Basem...</td><td>Transf...</td><td>Area o...</td></tr><tr><td>+</td><td>Basement Area (in Sqft)</td><td>Transf...</td><td>Base...</td></tr><tr><td>+</td><td>Age of House (in Years)</td><td>Transf...</td><td>Age of ...</td></tr></table><table><tr><th>Transformed_Housing_Data2 on Sale Price</th><th>Transformed_Housing_Data2 on No of Bedrooms</th><th>Transformed_Housing_Data2 on No of Bathrooms</th><th>Transformed_Housing_Data2 on Flat Area (in Sqft)</th><th>Transformed_Housing_Data2 on Lot Area (in Sqft)</th></tr><tr><td>221900.00</td><td>3</td><td>1.00000</td><td>1.180.00</td><td>5</td></tr><tr><td>538000.00</td><td>3</td><td>2.25000</td><td>2.570.00</td><td>7</td></tr><tr><td>180000.00</td><td>2</td><td>1.00000</td><td>770.00</td><td>10</td></tr><tr><td>604200.00</td><td>4</td><td>3.00000</td><td>1.960.00</td><td>5</td></tr><tr><td>510000.00</td><td>3</td><td>2.00000</td><td>1.680.00</td><td>8</td></tr><tr><td>1129575.00</td><td>4</td><td>4.50000</td><td>5.420.00</td><td>101</td></tr><tr><td>257500.00</td><td>3</td><td>2.25000</td><td>1.715.00</td><td>6</td></tr><tr><td>291850.00</td><td>3</td><td>1.50000</td><td>1.060.00</td><td>7</td></tr><tr><td>229500.00</td><td>3</td><td>1.00000</td><td>1.780.00</td><td>7</td></tr><tr><td>323000.00</td><td>3</td><td>2.50000</td><td>1.890.00</td><td>6</td></tr><tr><td>662500.00</td><td>3</td><td>2.50000</td><td>3.560.00</td><td>9</td></tr><tr><td>468000.00</td><td>2</td><td>1.00000</td><td>1.160.00</td><td>6</td></tr><tr><td>310000.00</td><td>3</td><td>1.00000</td><td>1.430.00</td><td>18</td></tr><tr><td>400000.00</td><td>3</td><td>1.75000</td><td>1.370.00</td><td>9</td></tr><tr><td>530000.00</td><td>5</td><td>2.00000</td><td>1.810.00</td><td>4</td></tr></table></div></div>	Type	Field Name	Phys...	Rem...	+	Sale Price	Transf...	Sale...	+	No of Bedrooms	Transf...	No of ...	+	No of Bathrooms	Transf...	No of ...	+	Flat Area (in Sqft)	Transf...	Flat Ar...	+	Lot Area (in Sqft)	Transf...	Lot Ar...	+	No of Floors	Transf...	No of ...	+	No of Times Visited	Transf...	No of ...	+	Overall Grade	Transf...	Overall...	+	Area of the House from Basem...	Transf...	Area o...	+	Basement Area (in Sqft)	Transf...	Base...	+	Age of House (in Years)	Transf...	Age of ...	Transformed_Housing_Data2 on Sale Price	Transformed_Housing_Data2 on No of Bedrooms	Transformed_Housing_Data2 on No of Bathrooms	Transformed_Housing_Data2 on Flat Area (in Sqft)	Transformed_Housing_Data2 on 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	604200.00	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	7	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	18	400000.00	3	1.75000	1.370.00	9	530000.00	5	2.00000	1.810.00	4
Type	Field Name	Phys...	Rem...																																																																																																																															
+	Sale Price	Transf...	Sale...																																																																																																																															
+	No of Bedrooms	Transf...	No of ...																																																																																																																															
+	No of Bathrooms	Transf...	No of ...																																																																																																																															
+	Flat Area (in Sqft)	Transf...	Flat Ar...																																																																																																																															
+	Lot Area (in Sqft)	Transf...	Lot Ar...																																																																																																																															
+	No of Floors	Transf...	No of ...																																																																																																																															
+	No of Times Visited	Transf...	No of ...																																																																																																																															
+	Overall Grade	Transf...	Overall...																																																																																																																															
+	Area of the House from Basem...	Transf...	Area o...																																																																																																																															
+	Basement Area (in Sqft)	Transf...	Base...																																																																																																																															
+	Age of House (in Years)	Transf...	Age of ...																																																																																																																															
Transformed_Housing_Data2 on Sale Price	Transformed_Housing_Data2 on No of Bedrooms	Transformed_Housing_Data2 on No of Bathrooms	Transformed_Housing_Data2 on Flat Area (in Sqft)	Transformed_Housing_Data2 on 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																																																																																																																														
604200.00	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	7																																																																																																																														
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	18																																																																																																																														
400000.00	3	1.75000	1.370.00	9																																																																																																																														
530000.00	5	2.00000	1.810.00	4																																																																																																																														
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																																																																																																																																
<div>Visualizations included:</div> <ul style="list-style-type: none">• Total Houses (KPI)• Average Sale Price (KPI)• Total Basement Area (KPI)• Sales by Years Since Renovation (Bar Chart)• House Age Distribution by Renovation Status (Pie Chart)• Feature Distribution by Bedrooms, Bathrooms, and Floors (Bar Chart) <p>The dashboard was designed with proper layout, labels, and interactive elements.</p>		<div><div>Comprehensive House Data Analysis</div><div><div>Sheet 1</div><table><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></table></div><div><div>Total sales by year since rennovation</div><table><tr><th>Year</th><th>Count of Sale Price</th></tr><tr><td>2013</td><td>130</td></tr><tr><td>2014</td><td>270</td></tr><tr><td>2015</td><td>324</td></tr><tr><td>2016</td><td>439</td></tr><tr><td>2017</td><td>255</td></tr><tr><td>2018</td><td>378</td></tr><tr><td>2019</td><td>432</td></tr><tr><td>2020</td><td>486</td></tr><tr><td>2021</td><td>540</td></tr><tr><td>2022</td><td>648</td></tr><tr><td>2023</td><td>1,159</td></tr></table></div><div><div>Distribution of house age by rennovation status</div><table><tr><th>Renovation Status</th><th>Count</th></tr><tr><td>1</td><td>111</td></tr><tr><td>2</td><td>106</td></tr><tr><td>3</td><td>101</td></tr><tr><td>4</td><td>100</td></tr><tr><td>5</td><td>95</td></tr><tr><td>6</td><td>89</td></tr><tr><td>7</td><td>82</td></tr><tr><td>8</td><td>78</td></tr><tr><td>9</td><td>75</td></tr><tr><td>10</td><td>69</td></tr><tr><td>11</td><td>67</td></tr><tr><td>12</td><td>61</td></tr><tr><td>13</td><td>51</td></tr><tr><td>14</td><td>341</td></tr><tr><td>15</td><td>51</td></tr></table></div><div><div>House age distribution by no of bathrooms,bedrooms and no of floors</div><table><tr><th rowspan="2">Value</th><th colspan="5">Age of House (in Years)</th></tr><tr><th>50</th><th>51</th><th>59</th><th>64</th><th>71</th></tr><tr><td>No of rooms</td><td>1K</td><td>0.5K</td><td>1K</td><td>0.5K</td><td>0.5K</td></tr><tr><td>No of rooms</td><td>1K</td><td>0.5K</td><td>1K</td><td>0.5K</td><td>0.5K</td></tr><tr><td>No of rooms</td><td>1K</td><td>0.5K</td><td>1K</td><td>0.5K</td><td>0.5K</td></tr><tr><td>No of rooms</td><td>1K</td><td>0.5K</td><td>1K</td><td>0.5K</td><td>0.5K</td></tr><tr><td>No of rooms</td><td>1K</td><td>0.5K</td><td>1K</td><td>0.5K</td><td>0.5K</td></tr></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	Year	Count of Sale Price	2013	130	2014	270	2015	324	2016	439	2017	255	2018	378	2019	432	2020	486	2021	540	2022	648	2023	1,159	Renovation Status	Count	1	111	2	106	3	101	4	100	5	95	6	89	7	82	8	78	9	75	10	69	11	67	12	61	13	51	14	341	15	51	Value	Age of House (in Years)					50	51	59	64	71	No of rooms	1K	0.5K	1K	0.5K	0.5K	No of rooms	1K	0.5K	1K	0.5K	0.5K	No of rooms	1K	0.5K	1K	0.5K	0.5K	No of rooms	1K	0.5K	1K	0.5K	0.5K	No of rooms	1K	0.5K	1K	0.5K	0.5K																									
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																																																																																																																																	
Year	Count of Sale Price																																																																																																																																	
2013	130																																																																																																																																	
2014	270																																																																																																																																	
2015	324																																																																																																																																	
2016	439																																																																																																																																	
2017	255																																																																																																																																	
2018	378																																																																																																																																	
2019	432																																																																																																																																	
2020	486																																																																																																																																	
2021	540																																																																																																																																	
2022	648																																																																																																																																	
2023	1,159																																																																																																																																	
Renovation Status	Count																																																																																																																																	
1	111																																																																																																																																	
2	106																																																																																																																																	
3	101																																																																																																																																	
4	100																																																																																																																																	
5	95																																																																																																																																	
6	89																																																																																																																																	
7	82																																																																																																																																	
8	78																																																																																																																																	
9	75																																																																																																																																	
10	69																																																																																																																																	
11	67																																																																																																																																	
12	61																																																																																																																																	
13	51																																																																																																																																	
14	341																																																																																																																																	
15	51																																																																																																																																	
Value	Age of House (in Years)																																																																																																																																	
	50	51	59	64	71																																																																																																																													
No of rooms	1K	0.5K	1K	0.5K	0.5K																																																																																																																													
No of rooms	1K	0.5K	1K	0.5K	0.5K																																																																																																																													
No of rooms	1K	0.5K	1K	0.5K	0.5K																																																																																																																													
No of rooms	1K	0.5K	1K	0.5K	0.5K																																																																																																																													
No of rooms	1K	0.5K	1K	0.5K	0.5K																																																																																																																													

6	Story Design	No of Visualizations / Graphs: 4
<p>Story included the following scenes:</p> <ul style="list-style-type: none">• Dataset Overview• Renovation Impact Analysis• House Age Distribution Analysis• Feature-Based Analysis <p>The story was structured logically to explain housing market insights step-by-step.</p>		<p>Story 1</p> <div><div><div><</div><div>A simple sheet of visualization based on sales of house data</div><div>The visualization comparing the sale price of a house based</div><div>A pie chart to clearly visualize the age of house in years as well</div><div>The visualization that is estimating the price of a house based on no</div><div>></div></div><div></div></div>