Project Development Phase Model Performance Test

Date	29 June 2025
Team ID	LTVIP2025TMID60628
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	Dataset Successfully Loaded and Connected:
	Rendered	Total housing records processed: 21,613 rows
		Data source: CSV file containing comprehensive housing market data
		All data fields are properly recognized and typed by Tableau
		Data connection established without errors
		Real-time data refresh capability enabled
		Data integrity verified with 100% successful import rate
2.	Data	Comprehensive Data Cleaning and Transformation:
	Preprocessin	Missing Value Handling: Null values in renovation fields are replaced with
	g	appropriate defaults
		Data Type Conversions: Price fields converted to currency format, dates
		standardized
		Calculated Field Creation: "Years Since Renovation" field computed from
		renovation dates
		• Age Categories: House age grouped into meaningful segments (0-10, 11-20,
		21-30, 30+ years)
		• Feature Standardization: Bathroom, bedroom, and floor counts normalized
		Price Binning: Sales prices categorized into ranges for histogram analysis
		Data Validation: All records validated for logical consistency
3.	Utilization of	Interactive Filtering System Implemented:
	Filters	Date Range Filter: Users can filter by renovation year and sale date
		Property Type Filter: Single-family, multi-family, condo options
		Location Filter: Geographic filtering by neighborhood/area
		Price Range Filter: Dynamic price slider for sales price filtering
		• Feature Filters: Separate filters for bathrooms (1-5+), bedrooms (1-6+), floors
		(1-3+)
		Renovation Status Filter: Renovated vs Non-renovated toggle
		Cross-Dashboard Filtering: Actions applied across all visualizations
		Quick Filters: One-click filters for common scenarios
4.	Calculation	Advanced Calculated Fields for Business Logic:
	fields Used	• Years Since Renovation: DATEDIFF('year', [Renovation Date], TODAY())
		• Price per Square Foot: [Sales Price] / [Total Area]









