Project Development Phase Model Performance Test

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| Date | 30 June 2025 |
| Team ID | LTVIP2025TMID50749 |
| Project Name | Visualizing Housing Market Trends: An Analysis  of Sale Prices and Features using Tableau |
| Maximum Marks |  |

**Model Performance Testing:**

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| Stage | Actions & Tools | Objectives |
| 1. Data Collection & Understanding | - Review dataset fields: Sale\_Price, Bedrooms, Bathrooms, Area, Renovation info, Zipcode Groups, etc.  - Clean and format in Excel/MySQL | Ensure quality, understand variable significance |
| 2. Data Preprocessing | - Bin numerical features (e.g., Price, Age of House)  - Create calculated fields (e.g., Price per Sqft, Renovated Status)  - Derive meaningful groupings (e.g., Zipcode\_Group) | Enable intuitive filtering, meaningful comparisons |
| 3. Dashboard Planning | - Sketch layout (filters on side/top, charts in grid)  - Map visuals to questions (e.g., "Which areas have the highest renovated house prices?") | Define clear goals and user flow |
| 4. Visualization Building in Tableau | - Use bar/line charts for trend over time  - Bubble/map views for geographic distribution  - Filters: Zipcode, Features, Renovation | Communicate patterns, spatial insights |
| 5. Story Integration | - Create Tableau Story to guide users: from  Overview → Deep Dive → Insights  - Add captions to explain visual intent | Enhance narrative, support user understanding |
| 6. Performance Testing | - Test responsiveness, filter logic  - Ensure tooltips and legends work  - Optimize load times | Maximize usability and engagement |
| 7. Export & Feedback | * Enable export features (PNG, PDF, share link) * Add feedback prompts or embed survey links | Promote shareability, gather improvement input |