Project Development Phase Performance Test Report

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Model Performance Testing

The following table details the performance parameters of the Tableau Dashboards developed for the Union Budget Analysis.

S.No.	Parameter	Values / Description
1.	Data Rendered	**Source:** MySQL Database via CSV. **Volume:** Union Budget Data (FY 2021-22 to 2023-24). **Rows Processed:** 3000+ rows.
2.	Data Preprocessing	**Cleaning:** Handled Null values in "Actuals" column. **Formatting:** Converted 'Budget Estimates' to Currency Format (INR).
3.	Utilization of Filters	**Global Filters:** Ministry, Department, and Fiscal Year. **Context Filters:** Applied to "Top 5 Schemes" to ensure correct ranking within categories.
4.	Calculation Fields Used	**1. Total Budget:** [Revenue] + [Capital] **2. Variance:** [Estimates 2023] - [Actuals 2022] **3. Growth Rate:** ([Variance] / [Actuals 2022]) * 100
5.	Dashboard Design	**No. of Visualizations:** 7 Charts. **Dashboards Created:** 2 (Historical View & Future Estimates).

6.	Story Design	**Story Title:** "Empowering India: Budget Trends". **No. of Scenes:** 2 Scenes (Overview → Detailed Analysis).

Performance Observations

- The dashboard loads within **2 seconds** on the Flask web interface.

- Filter actions (e.g., selecting a Ministry) update all related charts instantaneously.

- The layout is responsive and adjusts correctly to standard screen resolutions (1920× 1080).