**Project Development Phase**

**Model Performance Test**

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| Date | 27-06-2025 |
| Team ID | LTVIP2025TMID49207 |
| Project Name | Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis |
| Maximum Marks |  |

**Model Performance Testing:**

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

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| **S.No.** | **Parameter** | **Screenshot / Values** |
| 1. | Data Rendered | The dashboard renders comprehensive country-level economic data including:   * Economic Score/Index * Country ID and Country Name * 5-Year GDP Growth Rate * Business Freedom, Corporate Tax Rate (%), FDI Inflow   (Millions), Financial Freedom, Fiscal Health, GDP (Billions),  GDP Growth Rate (%), GDP per Capita (PPP), Government  Integrity, Government Expenditure (%) of GDP,  Government Spending, Income Tax Rate (%), Inflation (%), Index of Population, Unemployment (%).  -The data appears to cover multiple years, showing trends and comparisons across a wide range of countries. |
| 2. | Data Preprocessing | Preprocessing likely involved:   * **Data Cleaning:** Handling missing values, correcting inconsistencies, and standardizing country names. * **Data Transformation:** Aggregating data to specific years or regions, potentially calculating the composite Economic Freedom Index from its constituent components. - **Geographic Data Preparation:** Ensuring country names are recognized by Tableau for mapping. * **Feature Engineering:** Creating calculated fields such as "5 Year GDP Growth Rate" or specific "Economic Score" components if not directly present in the raw data. |
| 3. | Utilization of Filters | The dashboard extensively uses filters and interactive elements:   * **Country Name Filter:** Allows users to select specific countries for focused analysis. * **Measures Filter:** To select different economic indicators   (e.g., Inflation, Unemployment, GDP) for visualization and Correlation |
|  |  | **Year Slider/Filter:** To change the year for which the data is displayed on the map and other charts.  - **Interactive Map Selection:** Clicking on countries on the map appears to filter other related views |
| 4. | Calculation fields Used | Based on the metrics and visualizations, the following calculated fields are likely used:   * **Economic Score/Index:** A composite score derived from various sub-indicators of economic freedom. * **5 Year GDP Growth Rate:** Likely a calculation based on GDP values over a five-year period. * **Rankings:** Calculated fields to determine and display the "Top 40 countries rank of Economy" and "Least ranked countries of economic index." * **Region Groupings:** Possibly a calculated field to group countries into broader regions for high-level analysis. |
| 5. | Dashboard design | No of Visualizations / Graphs –  The primary dashboard ("Dashboard 1" / "Global Rankings & Financial Freedom Impact Dashboard") contains at least 5 distinct visualizations/sections   * Choropleth Map (e.g., "Visualizing Economic Freedom and   Instability Around the World")   * Correlation Chart (e.g., "Correlation of Countries Based on   Inflation & Unemployment")   * Horizontal Bar Chart (e.g., "Index of Population") * "Insights Overview" Text Box * "Top 40 Countries rank of Economy" bar/map chart -"Countries Less Than 25 of Economy Index" (potentially a tree map or similar chart) |
| 6 | Story Design | No of Visualizations / Graphs –  The "Story" section ("Journey Through the 2002 Global Economy") explicitly shows 5 story points/pages, each potentially containing one or more visualizations:   * Story Point 1: World Map of Economic Score. * Story Point 2: Top 40 Countries Rank. * Story Point 3: Least Ranked Countries. * Story Point 4: Correlation of Countries Based on Inflation & Unemployment. * Story Point 5: Index of Population. * Story Point 6: Financial Freedom of Countries.   Story Point 7: Index of 5 yrs GDP Rate. |