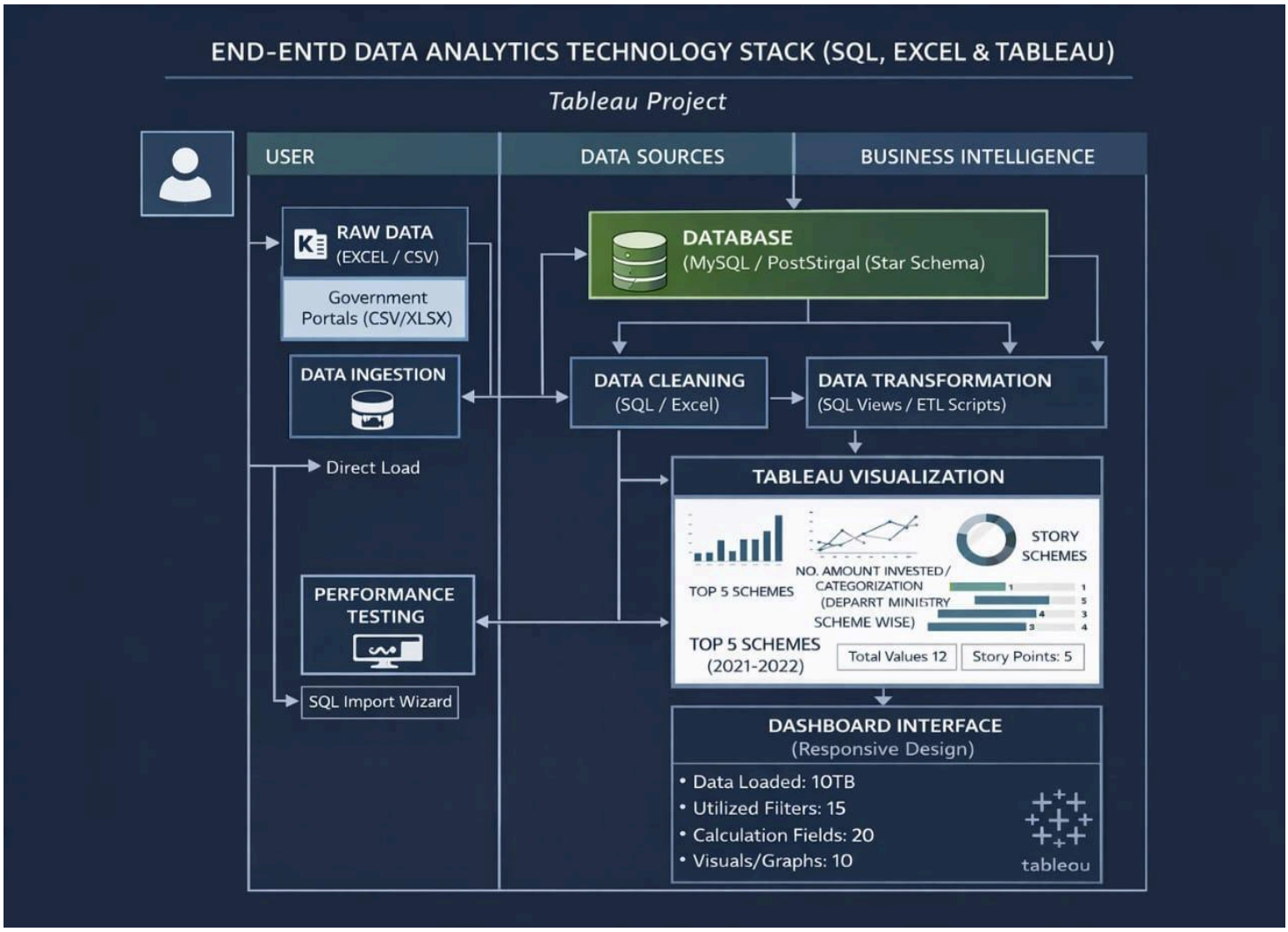
TECHNOLOGY STACK

(Architecture & stack)

DATE	
TEAM ID	
PROJECT NAME	Measuring the pulse of prosperity: An Index of Economic Freedom Analysis

TECHNICAL ARCHITECTURE: The technical architecture of the Economic Freedom Analysis project follows a structured end-to-end data flow. Raw data is collected from Excel/CSV files and government datasets, then loaded into a relational database like MySQL.



The data is cleaned and transformed using SQL and Excel to remove errors, handle missing values, and create calculated metrics. After processing, the refined data is connected to Tableau to build interactive dashboards and visualizations. Finally, the dashboard presents insights such as country comparisons, pillar-wise analysis, and trend evaluation for effective decision-making.

TABLE-1:Components & Technologies:

S.No	Components	Description	Technologies
1.	Data Source	Contains raw Economic Freedom Index data such as country scores and ranking	CSV/ Excel
2.	Data storage	Stores organized data securely for querying and analysis	My SQL
3.	Data visualization	Builds interactive dashboards, charts,and maps for analysis	Tableau
4.	Reporting	Presents insights like country comparisons, pillar analysis, and trends for decision making	Tableau dashboard
5.	Dashboard interaction	Allows users to explore data dynamically	Tableau filters & parameters
6.	Data validation	Ensure accuracy, consistency, and reliability of data	Excel / SQL constraints
7.	Data processing	Cleans data, removes errors, and create calculated metrics and KPIs	SQL / Excel
8.	KPI calculation	Computer overall scores, averages, and rankings	SQL & Tableau calculated Fields