

Project Development Phase
Model Performance Test

Date	28 February 2026
Team ID	LTVIP2026TMIDS46423
Project Name	Intelligent SQL Querying with LLMs Using Gemini Pro
Maximum Marks	

Model Performance Testing:

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

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	SQL-LLM renders database results dynamically in tabular format using Streamlit DataFrame. Data is fetched from relational database (SQLite/MySQL).
2.	Data Preprocessing	Input validation, schema extraction, prompt preprocessing, SQL validation, removal of harmful queries, structured result formatting.
3.	Utilization of Data Filters	Users can filter results using SQL conditions (WHERE clause) through natural language queries like "Show employees where salary > 50000".
4.	DAX Queries Used	SQL queries generated dynamically by LLM. Example: SELECT name, salary FROM employees WHERE department = 'IT';
5.	Dashboard design	Streamlit-based UI. No. of Visual Components: <ul style="list-style-type: none">• Query Input Field – 1• SQL Display Box – 1• Result Table – 1• Error Display Section – 1 Total Components: 4
6	Report Design	Results displayed in structured table format with dynamic updates. No. of Visualizations: <ul style="list-style-type: none">• Tabular Result View – 1• Future Scope: Graphical Visualization Module