

Functional & Performance Testing Template

**IntelliSQL: Intelligent SQL Querying with LLMs using Gemini Pro**

Date	27 February 2026
Team ID	LTVIP2026TMIDS66231
Project Name	IntelliSQL: Intelligent SQL Querying with LLMs using Gemini Pro
Maximum Marks	3 Marks

**Test Scenarios & Results**

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
FT-01	Natural Language Query Input	Enter a valid natural language query and submit; also test empty input	Valid query accepted; error shown for empty input	As Expected	Pass
FT-02	SQL Query Generation via Gemini Pro	Enter a plain English database question and click “Generate SQL”	Syntactically correct SQL query generated and displayed	As Expected	Pass
FT-03	Gemini Pro API Connection Check	Trigger SQL generation with a valid Gemini Pro API key configured	API responds successfully and returns SQL	As Expected	Pass
FT-04	Query Result Display & Formatting	Generate SQL and verify output display in the results panel	SQL displayed with proper syntax highlighting	As Expected	Pass
FT-05	Schema-Aware Query Accuracy	Upload a DB schema and ask schema-specific questions	Correct table and column names used in generated SQL	As Expected	Pass
PT-01	SQL Response Time Test	Measure time from query submission to SQL output display	SQL generated within 3–5 seconds	Within Limit	Pass
PT-02	Multiple Query Request Handling	Submit multiple SQL queries sequentially without reloading	Application handles all requests without crash or error	Stable	Pass

<b>PT-03</b>	Deployment Test	Access the deployed IntelliSQL app via browser and run a query	Application loads and SQL generation works correctly online	Working	Pass
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