

Project Design Phase
Problem – Solution Fit Template

Date	20 February 2026
Team ID	LTVIP2026TMIDS52185
Project Name	Intelligent SQL Querying with LLMs Using Gemini Pro
Maximum Marks	2 Marks

Problem – Solution Fit Template:

Problem Identified:

Many users such as students, analysts, and non-technical professionals struggle to retrieve data from databases because SQL query writing is complex. Writing queries requires knowledge of syntax, joins, aggregations, and optimization. This leads to dependency on technical experts and delays decision-making.

Customer Behavior Observed:

Users prefer asking questions in natural language instead of writing SQL. They frequently search online or depend on developers for query help.

Solution Fit:

The Intelli SQL system converts natural language questions into optimized SQL queries using Gemini Pro. This directly matches user behavior and reduces technical barriers. The solution aligns with user expectations of conversational interaction and fast data retrieval.

Template:

