

Project Design Phase
Problem – Solution Fit Template

Date	08 February 2026
Team ID	LTVIP2026TMIDS73975
Project Name	Intelligent SQL Querying with LLMs Using Gemini Pro
Maximum Marks	<u>2 Marks</u>

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:

WHO IS YOUR CUSTOMER?	EXPLORE LIMITATIONS TO BUY / USE YOUR PRODUCT OR SERVICE	HOW ARE YOU GOING TO BE DIFFERENT THAN COMPETITION?
FOCUS ON FREQUENT, COSTLY OR URGENT PROBLEM TO SOLVE	UNDERSTAND THE CAUSE OF THE PROBLEM	TAP INTO, RESEMBLE OR SUPPORT EXISTING BEHAVIOR
DESIGN TRIGGERS THAT FIT REAL LIFE, SPARK ASSOCIATIONS, MAKE IT FAMILIAR	YOUR “DOWN TO EARTH” SOLUTION GUESS	BE WHERE YOUR CUSTOMERS ARE
ADD EMOTIONS FOR STRONGER MESSAGE	© Daria Nepriakhina / IdeaHackers.nl	