

Project Design Phase
Problem – Solution Fit Template

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| Date | 08 February 2026 |
| Team ID | LTVIP2026TMIDS86338 |
| 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:

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| 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 | |