Project Design Phase
Proposed Solution Template

Date	24 February 2026
Team ID	LTVIP2026TMIDS34458
Project Name	Intelligent SQL Querying with LLMs using Gemini Pro
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1	Problem Statement (Problem to be solved)	Many users struggle to retrieve data from databases because writing SQL queries requires technical expertise, creating a barrier for non-technical users.
2	Idea / Solution Description	IntelliSQL is an AI-powered system that allows users to query databases using natural language. It converts user questions into SQL queries using Gemini Pro, executes them safely, and displays results with simple explanations.
3	Novelty / Uniqueness	The system enables natural language querying without requiring SQL knowledge and restricts execution to safe SELECT queries, combining usability with security using LLM-based intelligence.
4	Social Impact / Customer Satisfaction	IntelliSQL democratizes data access by enabling students, educators, and non-technical users to work with databases independently, increasing productivity and user satisfaction.
5	Business Model (Revenue Model)	Freemium model with basic query features free and advanced features such as multi-database support, analytics, and enterprise integration offered through paid subscriptions.
6	Scalability of the Solution	The modular 3-tier architecture allows the system to scale easily by adding more users, databases, and AI resources through cloud deployment and API-based services.