

**Project Design Phase**  
**ProposedSolutionTemplate**

Date	08February2026
Team ID	LTVIP2026TMIDS66060
ProjectName	Intelligent SQL Querying with LLMs Using Gemini Pro
MaximumMarks	2 Marks

**ProposedSolutionTemplate:**

Projectteamshallfillthefollowinginformationintheproposedsolutiontemplate.

S.No	Parameter	Description
1	Problem Statement	UsersfacedifficultywritingSQLqueriesduetocomplexityofsyntaxand database structure. Non-technical users cannot easily access database information.
2	Idea/Solution Description	Intelli SQL is an AI-powered system that converts natural language questionsintoSQLqueriesusingGeminiPro.UserstypeEnglishqueries and the system generates, validates, and executes SQL automatically.
3	Novelty / Uniqueness	Combines Large Language Models with database querying to enable conversationalSQLgenerationinsteadofmanualcoding.Usesprompt engineering for structured SQL output.
4	SocialImpact/ Customer Satisfaction	Makesdatabaseaccesseasyforstudentsandnon-technicalusers. Improvesproductivityandreducesdependencyonexperts.Enhances confidence and user satisfaction.
5	BusinessModel	Freemiummodel—freebasicquerying,premiumfeaturesforadvanced optimization, enterprise DB integration, analytics dashboards, and API usage.
6	Scalability	CanbeextendedtoMySQL,PostgreSQL,SQLServer,clouddeployment, multi-user support, and enterprise analytics integration.