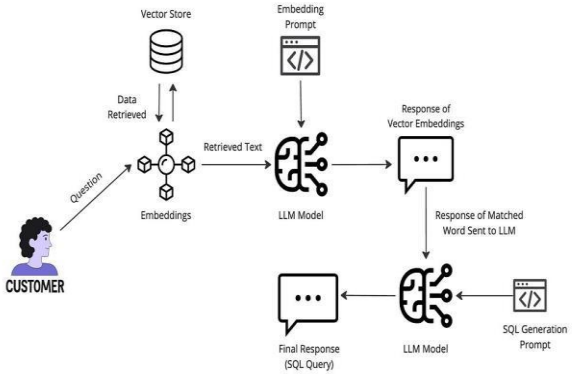
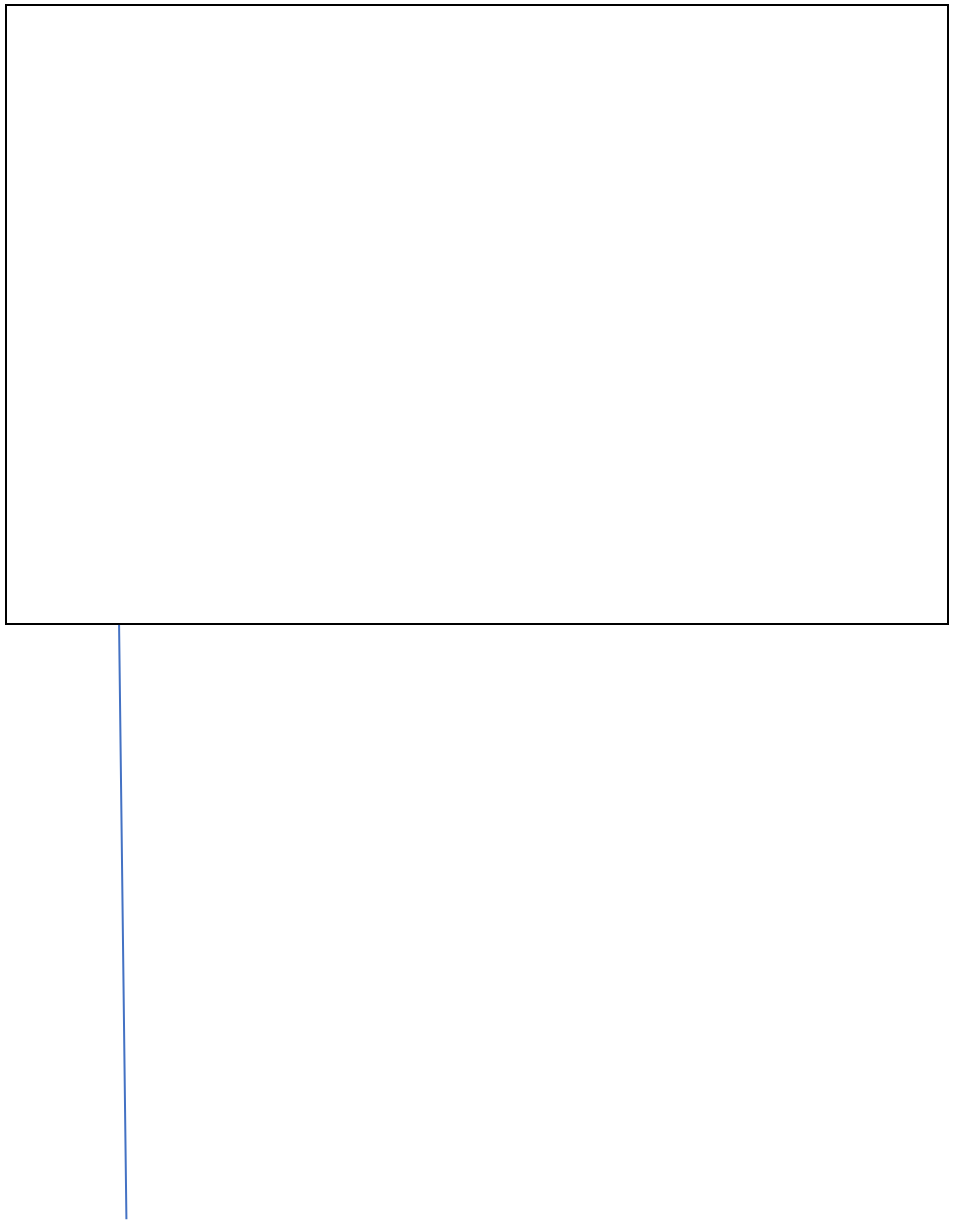
Project Design Phase-II
Data Flow Diagram & User Stories

Date	18 January 2026
Team ID	LTVIP2026TMIDS76399
Project Name	IntelliSQL: Intelligent SQL Querying with LLMs Using Gemini Pro
Maximum Marks	4 Marks

Data Flow Diagrams: The Data Flow Diagram (DFD) of IntelliSQL illustrates how a user's natural language query is submitted through the web interface and processed by Gemini Pro LLM, which converts it into a structured SQL query. The generated SQL is then executed on the database, and the retrieved results are formatted and displayed back to the user.





Example: [(Simplified)]

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register using email and password to access IntelliSQL.	I can successfully create an account and login.	High	Sprint-1
Customer (Web User)	Login	USN-2	As a user, I can log in securely using my credentials	I can access the dashboard after login.	High	Sprint-1
Customer (Web User)	Natural Language Query	USN-3	As a user, I can enter a query in plain English to retrieve data.	System accepts and processes natural language input.	High	Sprint-1
Customer (Web User)	SQL Generation	USN-4	As a user, I want the system to convert my English query into SQL automatically.	SQL query is correctly generated using Gemini Pro.	High	Sprint-1
Customer (Web User)	Query Execution	USN-5	As a user, I want the generated SQL to be executed on the database	Results are fetched without errors.	High	Sprint-1
Customer (Web User)	Result Display	USN-6	As a user, I want to see query results in a clear table format.	Results are displayed in structured tabular format	High	Sprint-1
Customer (Web user)	Query History	USN-7	As a user, I want to view my previous queries.	Past queries are stored and retrievable.	Medium	Sprint-2
Customer Care Executive	Database Management	USN-8	As an admin, I want to manage and update database schemas.	Admin can modify schema successfully.	Medium	Sprint-2
Administrator	User Management	USN-9	As an admin, I want to manage user accounts.	Admin can activate/deactivate users.	Medium	Sprint-2
Customer Care Executive	Issue Handling	USN-10	As support staff, I want to view user query logs for troubleshooting.	Logs are accessible for debugging.	Low	Sprint-3