

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	February 18, 2026
Team ID	LTVIP2026TMIDS80425
Project Name	Smart Bridge – Intelligent SQL Querying
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Reference: <https://www.mural.co/templates/brainstorm-and-idea-prioritization>

Step-1: Team Gathering, Collaboration and Select the Problem Statement

Team Leader	C Chaithanya Prasad
Team Member 1	K Dinesh
Team Member 2	Karnam Vidhyasree
Team Member 3	Bharath Kumar
Team Member 4	Parlapalli Khandith Kumar Reddy

Selected Problem Statement:

Non-technical users and business analysts struggle to interact with relational databases because writing SQL queries requires specialized knowledge. There is a need for an intelligent, natural-language-based interface that can translate plain English questions into valid SQL queries, execute them on the database, and return human-readable results.

Step-2: Brainstorm, Idea Listing and Grouping

S.No	Idea	Description	Group/Category
1	Natural Language to SQL Converter	Use AI/LLM to convert plain English questions into SQL queries	Core Feature
2	Schema Visualization	Display the database schema (tables, columns, relationships) in an interactive visual format	UI/UX
3	Query History & Bookmarks	Allow users to save, revisit, and bookmark frequently used queries	User Experience
4	AI-Powered Query Suggestions	Suggest relevant queries based on the database schema	AI Enhancement
5	Multi-Database Support	Support multiple database engines (SQLite, PostgreSQL, MySQL)	Scalability
6	Voice Input for Queries	Allow users to speak their database questions using speech-to-text	Accessibility
7	Export Results (CSV/PDF)	Enable exporting query results in various formats	Utility
8	Dark/Light Theme Toggle	Provide theme options for comfortable usage	UI/UX
9	Real-Time Error Feedback	Show AI-powered suggestions when SQL errors occur	AI Enhancement
10	Role-Based Access Control	Define user roles for query execution permissions	Security

Step-3: Idea Prioritization

S.No	Idea	Impact (1–5)	Feasibility (1–5)	Priority
1	Natural Language to SQL Converter	5	4	High
2	Schema Visualization	4	5	High
3	Query History & Bookmarks	3	5	Medium
4	AI-Powered Query Suggestions	4	3	Medium
5	Multi-Database Support	4	2	Low
6	Voice Input for Queries	2	2	Low
7	Export Results (CSV/PDF)	3	4	Medium
8	Dark/Light Theme Toggle	2	5	Medium
9	Real-Time Error Feedback	4	3	Medium
10	Role-Based Access Control	3	2	Low

Top Priority Ideas for MVP:

1. **Natural Language to SQL Converter** – Core feature using Google Gemini AI
2. **Schema Visualization** – Essential for user understanding of database structure
3. **Query History** – Improves user workflow and productivity