

## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	28 February 2026
Team ID	LTVIP2026TMIDS46423
Project Name	Intelligent SQL Querying with LLMs Using Gemini Pro
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.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

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

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

The screenshot shows a template for "Brainstorm & idea prioritization". On the left, there's a sidebar with a blue header labeled "Template". The main area has a light gray background with several sections:

- Icon:** A lightbulb icon with wavy lines around it.
- Title:** Brainstorm & idea prioritization
- Description:** Brainstorming was conducted to identify real-world challenges related to database accessibility and to generate innovative AI-based solutions. The session encouraged open thinking, collaborative discussion, and evaluation of practical implementation feasibility.
- Preparation Time:** 10 minutes to prepare
- Collaboration Time:** 1 hour to collaborate
- Participants:** 2-3 people recommended

**Before you collaborate** (Icon: exclamation mark): A little bit of preparation goes a long way with this session. Here's what you need to do to get going. (10 minutes)

**Define your problem statement** (Icon: exclamation mark): Non-technical users face difficulty in retrieving structured data from relational databases due to lack of SQL knowledge, leading to inefficiencies and dependency on technical experts. (5 minutes)

**Discussion Summary:** The team discussed common difficulties faced by non-technical users in interacting with relational databases. It was observed that:

- Business users lack SQL knowledge.
- Data retrieval requires dependency on database administrators.
- Manual query writing is time-consuming.
- Syntax errors frequently occur.
- Organizations need faster decision-making tools.

**Key rules of brainstorming** (Icon: brain with arrows): To run a smooth and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer Judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.

#### Step-2: Brainstorm, Idea Listing and Grouping

## 2 Brainstorm

Ideas Generated During Brainstorming:

1. Develop a GUI-based drag-and-drop SQL builder.
2. Create predefined query templates for common operations.
3. Develop a chatbot for database interaction.
4. Build an AI-powered natural language to SQL converter.
5. Develop a dashboard analytics tool with built-in queries.
6. Create an SQL auto-suggestion engine.
7. Implement voice-based database querying.

10 minutes



## 2 Group ideas

Category 1: Manual Assistance Tools

- GUI SQL Builder
  - Query Templates
  - Auto-Suggestion Engine
- Category 2: AI-Based Intelligent Systems
- AI Natural Language to SQL Converter
  - Chatbot Interface
  - Voice-Based Querying

20 minutes

## Step-3: Idea Prioritization

### Prioritize

The team evaluated Ideas based on:

- Feasibility
- Innovation Level
- Implementation Complexity
- Scalability
- Real-World Impact

#### Reason for Selection:

- High innovation value.
- Aligns with AI & ML domain.
- Scalable and future-ready.
- Reduces dependency on technical teams.
- Demonstrates practical LLM integration.

#### Importance

If each of these tasks could be done with any difficulty or cost, which would have the most positive impact?

#### Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)