

# Ideation Phase

## Brainstorm & Idea Prioritization Template

|               |   |
|---------------|---|
| Date          | 24 February 2026                                    |
| Team ID       | LTVIP2026TMIDS34458                                 |
| 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

Template



## Brainstorm & idea prioritization

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.

- 10 minutes to prepare
- 1 hour to collaborate
- 2-8 people recommended

### Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

1

**Team gathering**  
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

2

**Set the goal**  
Think about the problem you'll be focusing on solving in the brainstorming session.

3

**Learn how to use the facilitation tools**  
Use the Facilitation Superpowers to run a happy and productive session.

Open article

1

### Define your problem statement

Many users cannot retrieve data from databases because writing SQL queries requires technical knowledge. This limits access to data and slows decision-making. We aim to develop a system that converts natural language into SQL queries using Gemini Pro and allows users to interact with databases without knowing SQL.

5 minutes

PROBLEM

How might we help users get data from a database without needing to know SQL?

Key rules of brainstorming

To run an 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

Write down any ideas that come to mind that address your problem statement.

10 minutes

Person 1

Ask questions in English instead of SQL

Convert user question to SQL automatically

Show query results in table format

Person 2

Use AI (Gemini Pro) to generate SQL

Avoid writing complex SQL queries

Make database access easy

Person 3

Explain results in simple language

Show both SQL query and output

Help beginners understand data

Person 4

Single input box for user question

Display results clearly

Simple web interface using Streamlit

Person 5

Support SELECT queries only for safety

Prevent SQL Injection

Validate generated SQL

3

Group ideas

20 minutes

Group 1: Natural Language Querying

Ask questions in plain English

No need to write SQL

Beginner-friendly querying

Group 2: AI-Based SQL Generation

Use Gemini Pro for SQL generation

Convert text to SQL automatically

Intelligent query understanding

Group 3: Database Execution & Safety

Execute SELECT queries only

Prevent SQL Injection

Safe query validation

Group 4: User Interface & Experience

Simple Streamlit web interface

Single input field for questions

Clear display of results

Group 5: Result Explanation

Show query results in tables

Explain output in simple language

Improve data understanding

Group 6: Error Handling & Schema Awareness

Understand database schema

Handle wrong or unclear queries

Show helpful error messages

Group 7: Future Enhancements

Multi-database support

CSV/Excel upload

Export results

Group 8: Project Benefits

Useful for non-technical users

Saves time

Improves productivity

Tip

You can select a sticky note and hit the pencil button to edit it or drag it to that column.

Tip

Just add database logs to sticky notes to make it easier to find errors, optimize and compare important queries. Write notes on your team.

Step-3: Idea Prioritization

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes

High Important

Most Important

High Importance

Feasibility

Low Importance

Feasible

Tip

Participants can use their cursor to point at what sticky notes should go on the grid. The facilitator can confirm the spot by using the team member holding the H key on the keyboard.

Multi-database support

Automatic query optimization

Conversational query handling

Natural language to SQL conversion

Use Gemini Pro for SQL generation

Simple Streamlit user interface

SELECT-only query execution

Voice-based querying

Auto dashboard generation

Real-time analytics

UI color customization

Showing SQL query syntax

Basic result formatting

Tip

Regardless of their importance, which tasks are more resource than others (cost, time, effort, complexity, etc.)