

## Ideation Phase

### Define the Problem Statements

|               |   |
|---------------|---|
| Date          | 08 February 2026  |
| Team ID       | LTVIP2026TMIDS65953   |
| Project Name  | IntelliSQL: Intelligent SQL Querying with LLMs Using Gemini Pro |
| Maximum Marks | 2 Marks   |

#### Customer Problem Statement Template:

Create a problem statement to understand your customer's point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will love.

A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

|                            |  |   |
|----------------------------|--|---|
| <b>I am</b>                | Describe customer with 3-4 key characteristics - who are they?                                 | Describe the customer and their attributes here                             |
| <b>I'm trying to</b>       | List their outcome or "job" the care about - what are they trying to achieve?                  | List the thing they are trying to achieve here                              |
| <b>but</b>                 | Describe what problems or barriers stand in the way - what bothers them most?                  | Describe the problems or barriers that get in the way here                  |
| <b>because</b>             | Enter the "root cause" of why the problem or barrier exists - what needs to be solved?         | Describe the reason the problems or barriers exist                          |
| <b>which makes me feel</b> | Describe the emotions from the customer's point of view - how does it impact them emotionally? | Describe the emotions the result from experiencing the problems or barriers |

Reference: <https://miro.com/templates/customer-problem-statement/>

#### Example:



| Problem Statement (PS) | I am (Customer)               | I'm trying to                    | But                         | Because                       | Which makes me feel                                    |
|------------------------|-------------------------------|----------------------------------|-----------------------------|-------------------------------|--|
| PS-1                   | data analyst or non-technical | retrieve insights from databases | I struggle to write correct | SQL syntax requires technical | frustrated, time-consuming, and dependent on technical |

|      |   |   |   |   |  |
|------|---|---|---|---|--|
|      | business user.                                  | using SQL queries.  | and optimized SQL queries, especially for complex joins, aggregations, and nested queries.                  | expertise and a strong understanding of database schemas and relationships                    | teams for simple data retrieval tasks.   |
| PS-2 | a software developer or database administrator. | help users efficiently access and analyze structured data stored in relational databases. | manual query writing, debugging, and supporting non-technical users consume significant time and resources. | users often lack SQL knowledge and frequently make syntax or logical errors in their queries. | overloaded with repetitive support requests, reducing overall productivity and efficiency. |