

AI Data Agent - SDE Hiring Assignment

Assignment

Build a conversational interface that answers complex business questions from a SQL database. The final answer should be in natural language, and there should be relevant charts and tables relevant to the answer.

Please use bolt, lovable, cursor, claude, chatgpt or any tool that you want. We highly appreciate using GenAI. But the final product should be excellent.

Requirements

● **Stack:** React frontend, Python backend, SQL database ● **Core Feature:** Agent that excels at answering sophisticated analytical questions

Key Challenge

Develop an agent that can handle:

- Very complex database
- Bad schema
- Unnamed columns / table names
- Dirty data
- Vague questions

Evaluation Focus

Your solution will be judged primarily on its ability to answer extremely complicated analytical questions with accurate, insightful responses and appropriate visualizations.

Please send the link to the deployed webapp and github repo to vikas@bulba.app

Create a solution that demonstrates exceptional analytical capabilities, not just basic query translation.