

# sql-query Lab

## Objective:

The objective was to test how different prompt variations affect the accuracy of SQL query generation. I used prompts with varying complexity to assess whether GPT produces correct queries or "hallucinates" wrong answers.

## Results: Prompts and SQL Output:

Version 1: A query to see which employee makes the most money.

Generated SQL: Returns the employee with the highest compensation by correctly joining employees and salary.

Result: Performed as anticipated.

Version 2: A search to see which university pays the highest average wage.

Generated SQL: Returns the highest wage after accurately calculating the average for each institution.

Result: Performed as anticipated.

Version 3: Search for workers with a computer science degree who make over \$50,000.

The generated SQL accurately filters workers according to their specialization and salary.

Result: Performed as anticipated.

Did those variants not function well?

These questions showed no signs of hallucinations or mistakes.

Every variant functioned as intended.

Future assessments that use ambiguous or imprecise cues may result in mistakes or misunderstandings.