

Produce MySQL Queries using LLMs

Background

This prompt tests an LLM's code generation capabilities by prompting it to generate a valid MySQL query by providing information about the database schema.

Prompt

```
""  
Table departments, columns = [DepartmentId, DepartmentName]  
Table students, columns = [DepartmentId, StudentId, StudentName]  
Create a MySQL query for all students in the Computer Science Department  
""
```

Code / API

[GPT-4 \(OpenAI\)](#) [Mixtral MoE 8x7B Instruct \(Fireworks\)](#)

```
from openai import OpenAI  
client = OpenAI()  
  
response = client.chat.completions.create(  
    model="gpt-4",  
    messages=[  
        {  
            "role": "user",  
            "content": "\\\"\\\"\\\"\\nTable departments, columns = [DepartmentId,  
DepartmentName]\\nTable students, columns = [DepartmentId, StudentId, StudentName]\\nCreate a  
MySQL query for all students in the Computer Science Department\\n\\\"\\\"\\\""  
        }  
    ],  
    temperature=1,  
    max_tokens=1000,  
    top_p=1,  
    frequency_penalty=0,  
    presence_penalty=0
```

)

Reference

- [Prompt Engineering Guide](#) (16 March 2023)

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