



Model Context Protocol

A protocol for seamless integration between LLM applications and external data sources

The Model Context Protocol (MCP) is an open protocol that enables seamless integration between LLM applications and external data sources and tools. Whether you're building an AI-powered IDE, enhancing a chat interface, or creating custom AI workflows, MCP provides a standardized way to connect LLMs with the context they need.

MCP Server for MySQL based on NodeJS

A Model Context Protocol server that provides access to MySQL databases. This server enables LLMs to inspect database schemas and execute SQL queries.

Requirements:

- Node.js v18 or higher
- MySQL 5.7 or higher (MySQL 8.0+ recommended)
- MySQL user with appropriate permissions for the operations you need
- For write operations: MySQL user with INSERT, UPDATE, and/or DELETE privileges

Claude Desktop

To manually configure the MCP server for Claude Desktop App, add the following to your `claude_desktop_config.json` file (typically located in your user directory)

Do the necessary changes in `claude_desktop_config.json` for `mysql` and `node` as show below:

"C:\Users\ekris\AppData\Roaming\Claude\claude_desktop_config.json"

C: > Users > ekris > AppData > Roaming > Claude > {} claude_desktop_config.json > ...

```
1  {
2    "mcpServers": {
3      "mcp_server_mysql": {
4        "command": "npx",
5        "args": [
6          "-y",
7          "@benborla29/mcp-server-mysql"
8        ],
9        "env": {
10         "MYSQL_HOST": "127.0.0.1",
11         "MYSQL_PORT": "3306",
12         "MYSQL_USER": "root",
13         "MYSQL_PASS": "admin",
14         "MYSQL_DB": "mydb",
15         "ALLOW_INSERT_OPERATION": "false",
16         "ALLOW_UPDATE_OPERATION": "false",
17         "ALLOW_DELETE_OPERATION": "false",
18         "PATH": "D:\\fullstackNaresh\\mcp\\node",
19         "NODE_PATH": "D:\\fullstackNaresh\\mcp\\node\\node_modules\\npm\\node_modules"
20       }
21     }
22   }
23 }
```

mcp_server_mysql

mcp_server_mysql **running**

Command

npx

Arguments

-y @benborla29/mcp-server-mysql

Advanced options

Environment variables

MYSQL_HOST=127.0.0.1

MYSQL_PORT=3306

MYSQL_USER=root

MYSQL_PASS=admin

MYSQL_DB=mydb

ALLOW_INSERT_OPERATION=false

ALLOW_UPDATE_OPERATION=false

ALLOW_DELETE_OPERATION=false

PATH=D:\\fullstackNaresh\\mcp\\node


NODE_PATH=D:\\fullstackNaresh\\mcp\\node\\node_modules\\npm\\node_modules

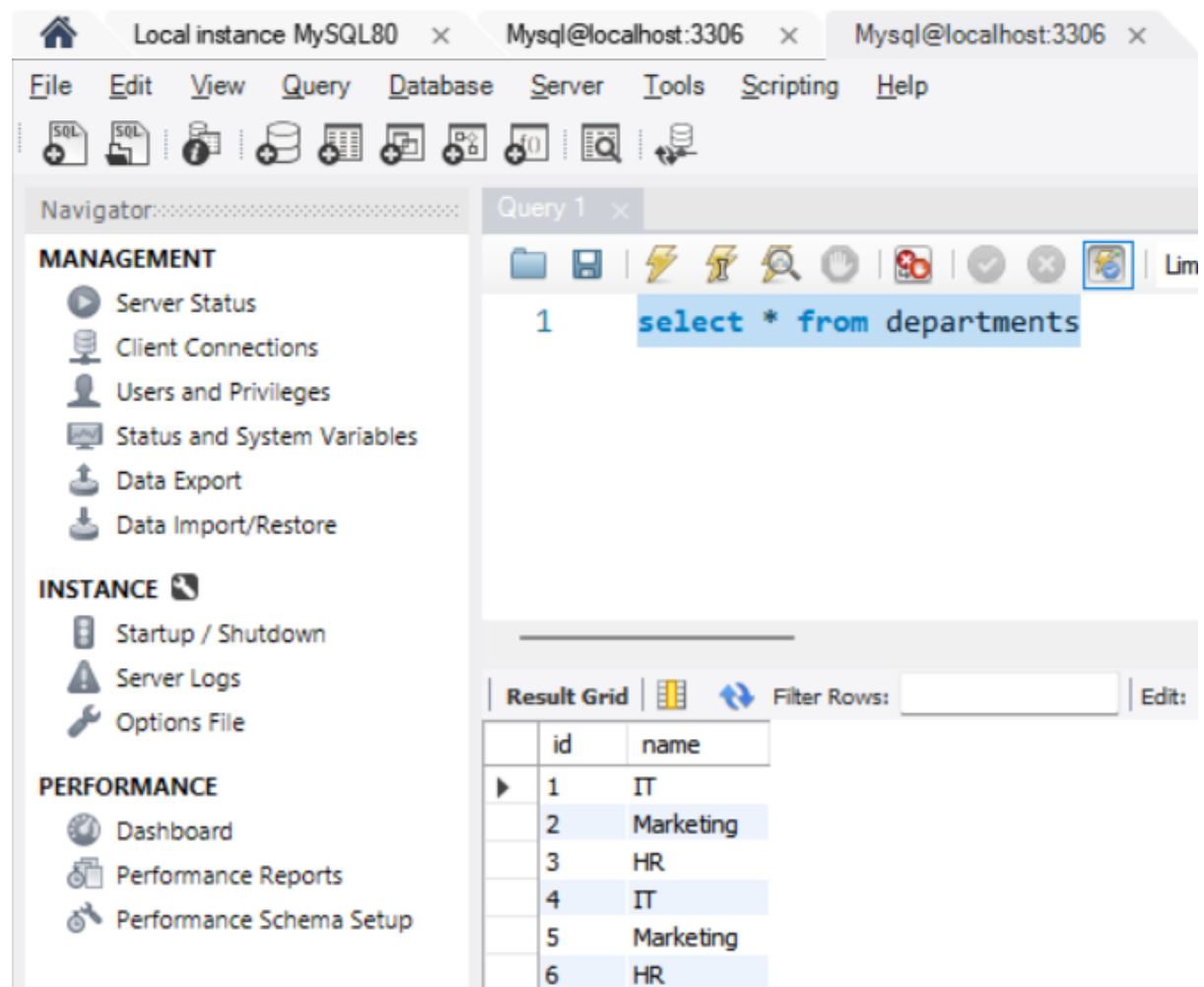
Edit Config

Logs location:

"C:\Users\ekris\AppData\Roaming\Claude\logs\mcp-server-mcp_server_mysql.log"

MySQL workbench:

 MySQL Workbench



Goto Claude Desktop and ask question related to database:

WI show me the tables

I'll help you explore the database structure. Let me run a query to show you all the available tables.

View result from **mysql_query** from **mcp_server_mysql** (local) >

I've found three tables in the database:

1. departments
2. employees
3. persons

Would you like to see the structure of any specific table? I can run a **DESCRIBE** or **SHOW CREATE TABLE** command to show you the columns and their data types.

WI which is 4th department

Let me look up the information about the 4th department in the departments table.

View result from **mysql_query** from **mcp_server_mysql** (local) >

According to the data, the 4th department (with id 4) is "IT".

I notice there are two IT departments in the list (one with id 1 and another with id 4). This could be because they represent different IT divisions or there might be some duplication in the data.

Reference:

<https://github.com/benborla/mcp-server-mysql>

https://github.com/designcomputer/mysql_mcp_server