

# Quick Database Setup & Operation Guide

## Setup in VS Code

1. **Install VS Code:** Download from the [official site](#).
2. **Add MySQL Extension:** Search "MySQL" in Extensions (**Ctrl+Shift+X**) and install.

## Connect to MySQL

- **Connect:** Open Command Palette (**Ctrl+Shift+P**), run "MySQL: Add Connection", enter database details.

## Execute SQL Queries

### Create Database

- `CREATE DATABASE IF NOT EXISTS reservation_system;`

### Create Tables

- **Order:** Create tables in this order: **Users, Venues, Reservations, Reviews, PaymentDetails, Availability.**
- **How:** Copy SQL creation code into a new SQL file, right-click, choose "Execute Query".

### Insert Data

- **Order:** Insert data as: **Users, Venues, Reservations, Reviews, PaymentDetails, Availability.**
- **How:** Use separate SQL files for each table's insert statements, execute as above.

### View and Analyze Data

- Utilize select queries to view data. Example: `"SELECT * FROM VenueRatings;"`

### Advanced: Views & Triggers

- Create views/triggers in individual SQL files. Example: **`CREATE VIEW...`, `CREATE TRIGGER...`**

### Best Practices

- **File Naming:** Name SQL scripts by their function, e.g., **`create_users.sql`**.
- **Sequential Execution:** Maintain order to prevent foreign key issues.

### Troubleshooting

- Check connection details and ensure MySQL server is active for any issues.

### Conclusion

This concise guide covers setting up VS Code for MySQL, connecting to your database, and executing SQL queries for database management. For detailed SQL syntax help, refer to official MySQL documentation.