

# MySQLDB Cheatsheet

## Connection

**mysql -h hostname -u username -p**  
Connect to MySQL server

**mysql -h hostname -u username -p database\_name**  
Connect to a specific database

**mysql -u username -p**  
Connect to local MySQL server

**mysql\_config\_editor set --login-path=client --host=hostname --user=username --password**  
Store connection credentials securely

**mysql --login-path=client**  
Connect using stored credentials

## Database Operations

**SHOW DATABASES;**  
List all databases

**CREATE DATABASE db\_name;**  
Create a new database

**DROP DATABASE db\_name;**  
Delete a database

**USE db\_name;**  
Switch to a database

## Table Operations

**SHOW TABLES;**  
List all tables in current database

**DESCRIBE table\_name;**  
Show table structure

**SHOW CREATE TABLE table\_name;**  
Show CREATE statement for a table

**CREATE TABLE table\_name (column\_definitions);**  
Create a new table

**ALTER TABLE table\_name ADD column\_name datatype;**  
Add column to table

**DROP TABLE table\_name;**  
Delete a table

## Data Querying

**SELECT \* FROM table\_name;**  
Select all records from a table

**SELECT column1, column2 FROM table\_name WHERE condition;**  
Select specific columns with condition

**SELECT \* FROM table\_name LIMIT 10;**  
Select first 10 records

**SELECT COUNT(\*) FROM table\_name;**  
Count records in a table

**SELECT column FROM table\_name ORDER BY column ASC/DESC;**  
Order results

## Data Modification

**INSERT INTO table\_name (column1, column2) VALUES (value1, value2);**  
Insert a record

**UPDATE table\_name SET column = value WHERE condition;**  
Update records

**DELETE FROM table\_name WHERE condition;**  
Delete records

## Performance Monitoring

**SHOW PROCESSLIST;**  
Show running processes/queries

**EXPLAIN SELECT query;**  
Analyze query execution plan

**SHOW STATUS;**  
Show server status variables

**SHOW VARIABLES;**  
Show system variables

**SHOW ENGINE INNODB STATUS;**  
Show InnoDB engine status

## User Management

**SELECT User, Host FROM mysql.user;**  
List all users

**CREATE USER 'username'@'host' IDENTIFIED BY 'password';**  
Create new user

**GRANT permission ON database.table TO 'username'@'host';**  
Grant permissions

**SHOW GRANTS FOR 'username'@'host';**  
Show user permissions

**REVOKE permission ON database.table FROM 'username'@'host';**  
Revoke permissions

**DROP USER 'username'@'host';**  
Delete user

## Backup and Restore

**mysqldump -u username -p database\_name > backup.sql**  
Backup a database

**mysqldump -u username -p --all-databases > all\_db\_backup.sql**  
Backup all databases

**mysql -u username -p database\_name < backup.sql**  
Restore from backup

## Replication

**SHOW MASTER STATUS;**  
Show master binary log status

**SHOW SLAVE STATUS;**  
Show slave replication status

**START SLAVE;**  
Start the slave replication process

**STOP SLAVE;**  
Stop the slave replication process

**RESET SLAVE;**  
Reset slave replication settings