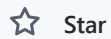


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Revisions

14

Stars

1,487

Forks

783

## MySQL Cheat Sheet

[mysql\\_cheat\\_sheet.md](#)

# MySQL Cheat Sheet

Help with SQL commands to interact with a MySQL database

## MySQL Locations

- Mac `/usr/local/mysql/bin`
- Windows `/Program Files/MySQL/MySQL version/bin`
- Xampp `/xampp/mysql/bin`

## Add mysql to your PATH

```
# Current Session
export PATH=${PATH}:/usr/local/mysql/bin
# Permanently
echo 'export PATH="/usr/local/mysql/bin:$PATH"' >> ~/.bash_profile
```

On Windows - <https://www.qualitestgroup.com/resources/knowledge-center/how-to-guide/add-mysql-path-windows/>

## Login

```
mysql -u root -p
```

## Show Users

```
SELECT User, Host FROM mysql.user;
```



## Create User

```
CREATE USER 'someuser'@'localhost' IDENTIFIED BY 'somepassword';
```



## Grant All Priveleges On All Databases

```
GRANT ALL PRIVILEGES ON * . * TO 'someuser'@'localhost';  
FLUSH PRIVILEGES;
```



## Show Grants

```
SHOW GRANTS FOR 'someuser'@'localhost';
```



## Remove Grants

```
REVOKE ALL PRIVILEGES, GRANT OPTION FROM 'someuser'@'localhost';
```



## Delete User

```
DROP USER 'someuser'@'localhost';
```



## Exit

```
exit;
```



## Show Databases

```
SHOW DATABASES
```



## Create Database

```
CREATE DATABASE acme;
```



## Delete Database

```
DROP DATABASE acme;
```



## Select Database

```
USE acme;
```



## Create Table

```
CREATE TABLE users(  
  id INT AUTO_INCREMENT,  
  first_name VARCHAR(100),  
  last_name VARCHAR(100),  
  email VARCHAR(50),  
  password VARCHAR(20),  
  location VARCHAR(100),  
  dept VARCHAR(100),  
  is_admin TINYINT(1),  
  register_date DATETIME,  
  PRIMARY KEY(id)  
);
```



## Delete / Drop Table

```
DROP TABLE tablename;
```



## Show Tables

```
SHOW TABLES;
```



## Insert Row / Record

```
INSERT INTO users (first_name, last_name, email, password, location, dept, is_admin,
```



## Insert Multiple Rows

```
INSERT INTO users (first_name, last_name, email, password, location, dept, is_admin)
```

## Select

```
SELECT * FROM users;  
SELECT first_name, last_name FROM users;
```

## Where Clause

```
SELECT * FROM users WHERE location='Massachusetts';  
SELECT * FROM users WHERE location='Massachusetts' AND dept='sales';  
SELECT * FROM users WHERE is_admin = 1;  
SELECT * FROM users WHERE is_admin > 0;
```

## Delete Row

```
DELETE FROM users WHERE id = 6;
```

## Update Row

```
UPDATE users SET email = 'freddy@gmail.com' WHERE id = 2;
```

## Add New Column

```
ALTER TABLE users ADD age VARCHAR(3);
```

## Modify Column

```
ALTER TABLE users MODIFY COLUMN age INT(3);
```

## Order By (Sort)

```
SELECT * FROM users ORDER BY last_name ASC;  
SELECT * FROM users ORDER BY last_name DESC;
```



## Concatenate Columns

```
SELECT CONCAT(first_name, ' ', last_name) AS 'Name', dept FROM users;
```



## Select Distinct Rows

```
SELECT DISTINCT location FROM users;
```



## Between (Select Range)

```
SELECT * FROM users WHERE age BETWEEN 20 AND 25;
```



## Like (Searching)

```
SELECT * FROM users WHERE dept LIKE 'd%';  
SELECT * FROM users WHERE dept LIKE 'dev%';  
SELECT * FROM users WHERE dept LIKE '%t';  
SELECT * FROM users WHERE dept LIKE '%e%';
```



## Not Like

```
SELECT * FROM users WHERE dept NOT LIKE 'd%';
```



## IN

```
SELECT * FROM users WHERE dept IN ('design', 'sales');
```



## Create & Remove Index

```
CREATE INDEX LIndex On users(location);  
DROP INDEX LIndex ON users;
```

## New Table With Foreign Key (Posts)

```
CREATE TABLE posts(  
  id INT AUTO_INCREMENT,  
  user_id INT,  
  title VARCHAR(100),  
  body TEXT,  
  publish_date DATETIME DEFAULT CURRENT_TIMESTAMP,  
  PRIMARY KEY(id),  
  FOREIGN KEY (user_id) REFERENCES users(id)  
);
```

## Add Data to Posts Table

```
INSERT INTO posts(user_id, title, body) VALUES (1, 'Post One', 'This is post one')
```

## INNER JOIN

```
SELECT  
  users.first_name,  
  users.last_name,  
  posts.title,  
  posts.publish_date  
FROM users  
INNER JOIN posts  
ON users.id = posts.user_id  
ORDER BY posts.title;
```

## New Table With 2 Foreign Keys

```
CREATE TABLE comments(  
  id INT AUTO_INCREMENT,  
  post_id INT,  
  user_id INT,  
  body TEXT,  
  publish_date DATETIME DEFAULT CURRENT_TIMESTAMP,  
  PRIMARY KEY(id),  
  FOREIGN KEY (user_id) references users(id),
```

```
FOREIGN KEY(post_id) references posts(id)
);
```

## Add Data to Comments Table

```
INSERT INTO comments(post_id, user_id, body) VALUES (1, 3, 'This is comment one')
```

## Left Join

```
SELECT
comments.body,
posts.title
FROM comments
LEFT JOIN posts ON posts.id = comments.post_id
ORDER BY posts.title;
```

## Join Multiple Tables

```
SELECT
comments.body,
posts.title,
users.first_name,
users.last_name
FROM comments
INNER JOIN posts on posts.id = comments.post_id
INNER JOIN users on users.id = comments.user_id
ORDER BY posts.title;
```

## Aggregate Functions

```
SELECT COUNT(id) FROM users;
SELECT MAX(age) FROM users;
SELECT MIN(age) FROM users;
SELECT SUM(age) FROM users;
SELECT UCASE(first_name), LCASE(last_name) FROM users;
```

## Group By



```
SELECT age, COUNT(age) FROM users GROUP BY age;  
SELECT age, COUNT(age) FROM users WHERE age > 20 GROUP BY age;  
SELECT age, COUNT(age) FROM users GROUP BY age HAVING count(age) >=2;
```

[Load earlier comments...](#)

**ChinemeremUgagu** commented on Aug 16, 2021

Thanks

**mefercs** commented on Aug 18, 2021

kisses on whatever you want Brad 🤔

**sanphem** commented on Aug 19, 2021

Thank you so much, Brad.

**Rajarshi1001** commented on Sep 4, 2021

Thanks!!

**pjguitar15** commented on Oct 8, 2021

SHOW COLUMNS command is lacking here.

✉ **erinoggz** commented on Oct 8, 2021

Add it

...

On Fri, 8 Oct 2021, 05:42 Philcob Suzuki Josol, \*\*\*@\*\*\*.\*\*\*> wrote: \*\*\*@\*\*\*.\*\*\*\* commented on this gist. -  
----- SHOW COLUMNS command is lacking here. — You are receiving this because  
you commented. Reply to this email directly, view it on GitHub  
<<https://gist.github.com/c831baaad44343cc945e76c2e30927b3#gistcomment-3920242>>, or unsubscribe  
<[https://github.com/notifications/unsubscribe-  
auth/ANCHZ2OMAFYG55B5UFBJHY3UFZZEXANCNFSM4HHWB4ZQ](https://github.com/notifications/unsubscribe-auth/ANCHZ2OMAFYG55B5UFBJHY3UFZZEXANCNFSM4HHWB4ZQ)> . Triage notifications on the go with  
GitHub Mobile for iOS <[https://apps.apple.com/app/apple-store/id1477376905?ct=notification-  
email&mt=8&pt=524675](https://apps.apple.com/app/apple-store/id1477376905?ct=notification-email&mt=8&pt=524675)> or Android <[https://play.google.com/store/apps/details?  
id=com.github.android&referrer=utm\\_campaign%3Dnotification-  
email%26utm\\_medium%3Demail%26utm\\_source%3Dgithub](https://play.google.com/store/apps/details?id=com.github.android&referrer=utm_campaign%3Dnotification-email%26utm_medium%3Demail%26utm_source%3Dgithub)>.