

Instantly share code, notes, and snippets.

bradtraversy / **mysql_cheat_sheet.md**

Last active 7 hours ago

☆ Star

<> Code

↺ Revisions 14

☆ Stars 1,115

🔗 Forks 580

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,
```

🔗 Insert Multiple Rows

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

🔗 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 po');
```

🔗 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')
```

🔗 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;
```



Zed-M commented on 23 Apr 2019

Thank you brad



A-Kiwams commented on 23 Apr 2019

Just started going through. Thanks



ridl27 commented on 23 Apr 2019

Very useful! thx <3



cyrilechristian commented on 24 Apr 2019

You are awesome! Keep doing what you are doing for the industry



saddamcrr7 commented on 24 Apr 2019

Thanks a lot brad



Fandry01 commented on 25 Apr 2019

Very useful!



rohankewal commented on 26 Apr 2019

Very helpful! Thanks brad @bradtraversy



sohel1999 commented on 27 Apr 2019

very useful!



zhouyang159 commented on 27 Apr 2019

xiexie ni de crash course :) (someone from China)



YuanruiZhang commented on 29 Apr 2019

Thanks alot Brad!



Foss-Bee commented on 4 May 2019

Thanks very much **@bradtraversy**. You always make me love programming. Keep up with the good work.



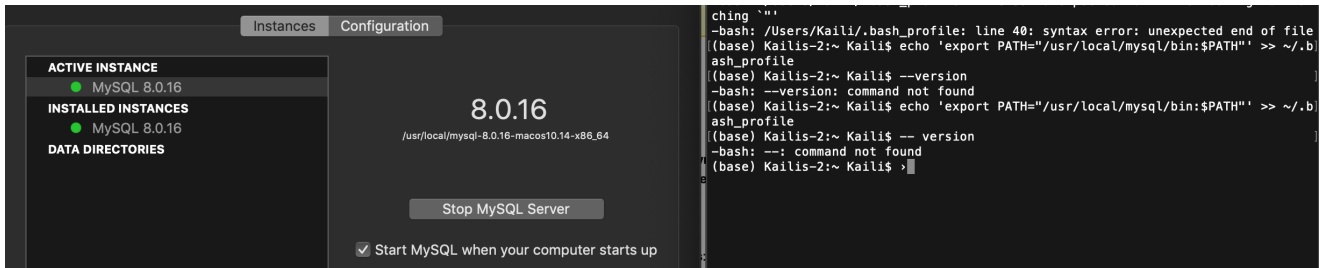
xelinel32 commented on 6 May 2019

thx, man)



kailichou commented on 6 May 2019

Hi, there
is there anyone also struggling to add mysql to the path?



LinmeiJ commented on 20 May 2019

THANK YOU SO MUCH brad! very helpful!



mymmoona commented on 9 Jun 2019

nice work!



abdalshaban commented on 12 Jun 2019

nice work



zaki1001 commented on 12 Jun 2019

thanks a ton mate



ball97 commented on 18 Jun 2019

Thank you Brad. You are the best !!



Ajmal0197 commented on 18 Jun 2019

Thanks master



ghost commented on 20 Jun 2019

Thanks



MbuguaCaleb commented on 25 Jun 2019

Thank you very Much Brad!!



samdsg commented on 28 Jun 2019

God Bless you Mr. Brad



samdsg commented on 28 Jun 2019

I have a question Mr. Brad.

```
$sql = 'SELECT c.categoryName as catname, m.img as img, p.id,
p.product_name, p.product_desc FROM ' . $this->products . ' p RIGHT
JOIN images m ON m.product_id = p.id LEFT JOIN categories c ON
p.product_category = c.slug ORDER BY p.id DESC ';
```

i want to limit the image to only one image.. the image is a bucket with not less than four images.

I will really appreciate your response to me shortly.



imaginaries commented on 30 Jun 2019

Very useful, thanks.



AbbottWilloughby commented on 9 Jul 2019

Super useful, thank you!



Zhixin-Jack-Wang commented on 16 Jul 2019

GOOD WORK, THANK YOU



YosiLeibman commented on 17 Jul 2019

I have a question Mr. Brad.

```
$sql = 'SELECT c.categoryName as catname, m.img as img, p.id,
p.product_name, p.product_desc FROM ' . $this->products . ' p RIGHT
JOIN images m ON m.product_id = p.id LEFT JOIN categories c ON
p.product_category = c.slug ORDER BY p.id DESC ';
```

i want to limit the image to only one image.. the image is a bucket with not less than four images.

I will really appreciate your response to me shortly.

there's a LIMIT clause. [here](#) you can read about.



sukhdevVyas commented on 16 Aug 2019

It was a great refresher. Thank you :) Expecting more videos or cheat seats for mySql administration.



maggiesb commented on 10 Sep 2019

This is awesome! Thanks so much, Brad.

 **ghost** commented on 12 Sep 2019

Thank you for this , Sir!

 **chrisvaughan83** commented on 23 Sep 2019

Thanks! this is super helpful!

 **lin3yx** commented on 20 Oct 2019

Thank you so much for your wonderful work!

 **domnet-webdesign** commented on 7 Nov 2019

Thanks you very much for this sample documentation

 **mouadTaoussi** commented on 7 Nov 2019 • edited ▼

Thank You **Brad Traversy** !
You're Work **Apperciated** Honestly!
Congratulations 900k Subscriber!

 **vTechSavvy** commented on 18 Nov 2019

Thank you Brad! This is really useful. Helped me a lot to learn MySQL.

 **chuckchukwuma** commented on 22 Nov 2019

Hello Brad. You have so much demystified MySQL and made it look learning 1+1=2. Great Job!

 **nikkhilchauhan** commented on 23 Nov 2019



Great



salah3x commented on 29 Nov 2019

Thanks Brad!



jayDevaney commented on 9 Dec 2019

Many thanks Brad! Great tutorial.



geekvert commented on 27 Dec 2019

Thank you sir, it's great and helped me a lot. Please keep doing stuff like this.



hh088 commented on 31 Dec 2019

Thank you very much.



KingAbesh commented on 11 Jan 2020

You have been far to kind and helpful, Brad. Your videos have made me a solid javascript developer and I recently just picked up your PHP course. Thank you for doing this. I am grateful



milainmaroo commented on 28 Jan 2020

Very helpful..thank you very much!!



czatarain commented on 24 Feb 2020

Thank you Brad.



alexander-rusiecki commented on 15 Mar 2020

Thank You Brad!



erinoggz commented on 19 Mar 2020

Thanks Man. Really appreciate...



muhammadabir64 commented on 28 Mar 2020 • edited ▼

its very helpful..... 😊
thank you so much 😊



bougatsa commented on 26 Apr 2020

Thanks Brad! This is super helpful



azuba1 commented on 27 Apr 2020

Thank you very much my boss keep on the good works



KunalKatiyar commented on 2 Jun 2020

Great Work! Helped a lot!



abiaki997-tech commented on 4 Jun 2020

Thank you sir :)



philsav commented on 16 Jun 2020

How do you order a query by date posted



SinghiHarsh commented on 6 Jul 2020

Thank you!, This is very helpful :)



Clinzho1996 commented on 14 Jul 2020

thanks alot. this is absolute stunner



OmRajpurkar commented on 25 Jul 2020

Thanks you! It was a great tutorial on YouTube 👍



kingkongwebdev commented on 11 Aug 2020

thank you Brad.



CHANG-CHING-CHUNG commented on 20 Aug 2020

Learning PHP and MySQL. Thanks for your work for this.



AlyNeumann commented on 15 Sep 2020

Thank you so much Brad!



LawrenceMadali commented on 26 Oct 2020

Thanks a lot!



rajasivashankarjasthi commented on 6 Nov 2020

thanks pal , you save lot of time .



yashish25 commented on 11 Nov 2020

Thanks buddy!



Temi-t commented on 4 Dec 2020

This was very helpful.



abubakarMana01 commented on 10 Dec 2020

That you master. Was really helpful



markyoung010 commented on 17 Dec 2020

Thanks! 😊



Qais-Haidari commented on 30 Dec 2020

many many thanks



ben031 commented on 6 Jan

It is what i was looking for. awesome! 🙌 Thanks! 😊



rykumar13 commented on 13 Jan

thanks 🙌



rtheerdham commented on 15 Jan

Thanks



bharathjinka09 commented on 23 Jan

Thanks Brad 😊



AhmedMaqbool commented on 26 Jan

Thank You Brad sensei !!



BasWorld commented on 31 Jan

Thanks boss



sameeruj commented on 16 Feb

Thank you!



nazish5590 commented on 20 Feb

Thank you so much sir from pakistan



soufianekremcht commented on 22 Feb

Thank you Brad For making this.



madhumitathakur commented on 28 Feb

Thanks a lot



aayardev commented on 9 Mar

Tks Brad !



snehal222000 commented on 21 Mar

Thanks Brad



mark-antal-csizmadia commented on 23 Mar

Thanks a lot, great stuff



doupongzeng commented on 2 Apr

Thanks Brad!



kashyapkale commented on 6 Apr

Thanks a lot Brad!



mourice-oduor commented on 26 Apr

Thank you so much Brad.



aivantuquero commented on 1 May

This is great!



ajay2312 commented on 1 May

Thanks a lot!



AB-koricha commented on 24 May

Thanks very much **@bradtraversy**. You always make me love programming. Keep up with the good work.its because of you i am running my startup here in kenya



anoldKupara commented on 8 Jun

Thanks very much.



VikumRavinayake commented on 14 Jun

I've no words to say. It's a smart coverage of all the basics for me. Thank you **@bradtraversy...**



aarfiahmad commented on 29 Jun • edited ▾

Thanks a lot to #BradTraversy for creating mysql such a short cheat sheet from India.



maylilly commented on 21 Jul

This is so helpful , thanks alot Brad! blessings to you!



suzuhaa commented on 14 Aug

Just finished reading. Nice work!



mourice-oduor commented on 14 Aug

Don't just read it, but practically do it!

...



justintoronto commented on 14 Aug

Great. Thank you. All works on Linux MySQL.



ChinemeremUgagu commented on 16 Aug

Thanks



mefercs commented on 18 Aug

kisses on whatever you want Brad 😳



sanphem commented on 19 Aug

Thank you so much, Brad.



Rajarshi1001 commented on 3 Sep

Thanks!!



pjguitar15 commented on 8 Oct

SHOW COLUMNS command is lacking here.



erinoggz commented on 8 Oct

Add it

...



Jakaza commented 29 days ago

Thank you very much.. Your work is clean and clear