

How to create a database in MySQL

MySQL can be a scary program. All commands must go through the command line interpreter program (command prompt) without any intuitive interface. Therefore, the basic knowledge of how to create and manipulate on a database in MySQL can save you time and avoid nuisance.

Follow the instructions below to create a database of US state populations. Invite you to consult!

Method 1: Create and manipulate on a database

1. Create the database

```

E:\SQL\bin\mysql.exe
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or
Your MySQL connection id is 7
Server version: 5.1.40-community MySQL Community Serve
Type 'help;' or '\h' for help. Type '\c' to clear the
mysql create database us_states;
  
```

From the MySQL command line, enter the `CREATE DATABASE ;` command `data_name CREATE DATABASE ;`. Replace `data_name` by your database name. This name cannot contain spaces.

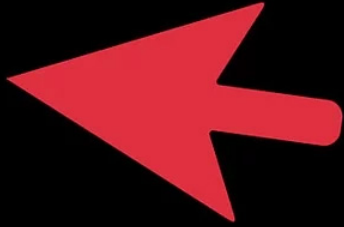
1. For example: To create a database for all US states, you can use the command: `CREATE DATABASE us_states ;`
2. Note: Do not capitalize commands. All MySQL commands must be terminated with a " ; " sign. If you forget to put the semicolon in the command, you simply add it to the next line to execute the previous command.

2. Display the list of existing databases

```
E:\SQL\bin\mysql.exe
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or
Your MySQL connection id is 18
Server version: 5.1.40-community MySQL Community Serve
Type 'help;' or '\h' for help. Type '\c' to clear the

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| test       |
| us_states  |
+-----+
4 rows in set (0.00 sec)

mysql>
```




Enter the `SHOW DATABASES;` command `SHOW DATABASES;` to list all the databases you have. Besides the database you just created, you will see the `mysql` database and `test` database. At this point, you can "ignore" them.

3. Select your database

```
E:\SQL\bin\mysql.exe
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or
Your MySQL connection id is 18
Server version: 5.1.40-community MySQL Community Serve
Type 'help;' or '\h' for help. Type '\c' to clear the

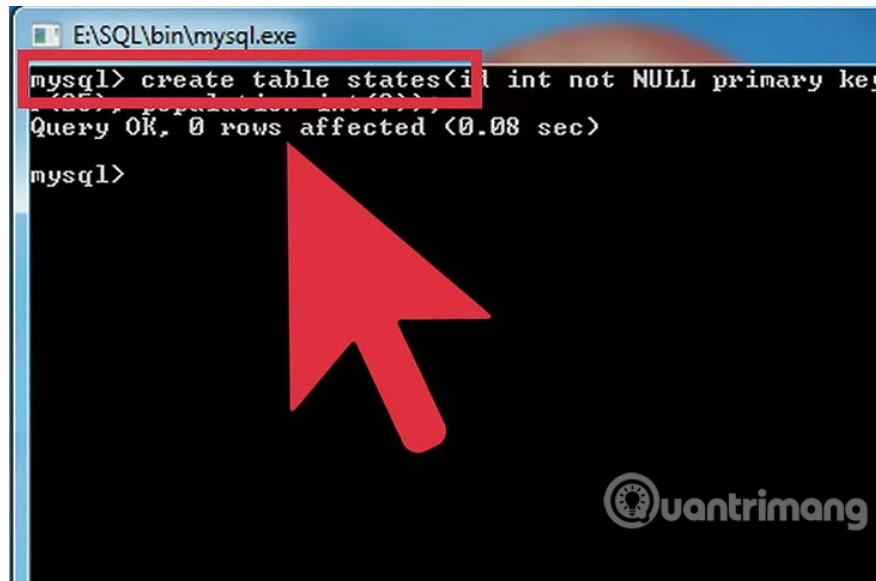
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql      |
| test       |
| us_states  |
+-----+
4 rows in set (0.00 sec)

mysql> use us_states;
Database changed
mysql>
```



Once you have created the database, you need to select it to start the editing process. Enter `USE us_states;` command `USE us_states;`. The notice `Database changed` (`Database changed` has been changed) will appear, indicating that the database has been activated.

4. Create a data table

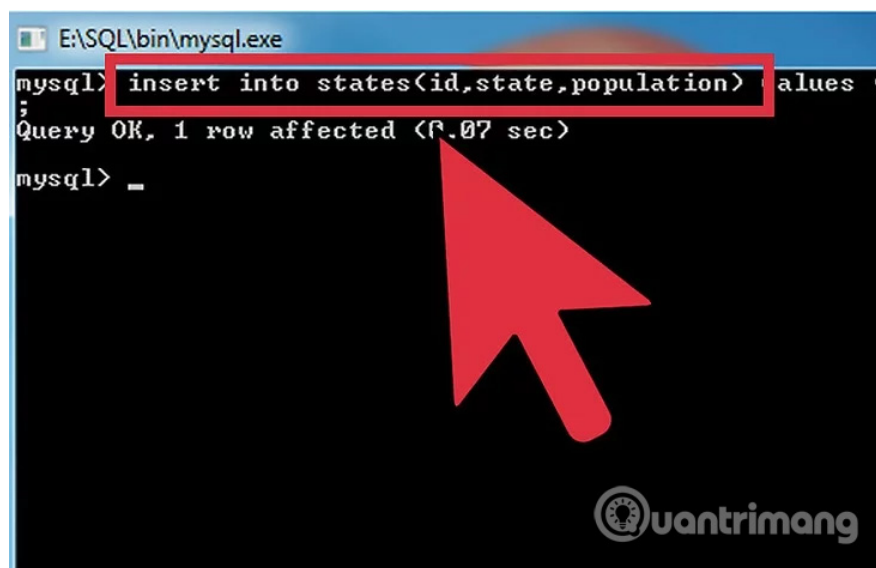


```
E:\SQL\bin\mysql.exe
mysql> create table states(id int not NULL primary key
Query OK, 0 rows affected (0.08 sec)
mysql>
```

Table is the place to store database information. To create the table, you need to enter the entire format of the table into the original command. To create the data table, enter the following command: `CREATE TABLE states (id INT NOT NULL PRIMARY KEY AUTO_INCREMENT, state CHAR(25), population INT(9));`. This command will help create a table named "states" consisting of three fields: id (code), state (state) and population .

1. The INT command ensures that the code field contains only numbers (integers).
2. The NOT NULL command ensures that the code field is not left blank.
3. The PRIMARY KEY command specifies the code field as the key field of the table. Key fields should be fields without any duplication.
4. The AUTO_INCREMENT command will automatically assign the increased values ??to the code, basically automatically numbering each data entry.
5. The CHAR (character) and INT (integer) instructions specify the type of data allowed to enter these fields. The next number represents the maximum number of characters or integers that the school can receive.

5. Enter data into the table

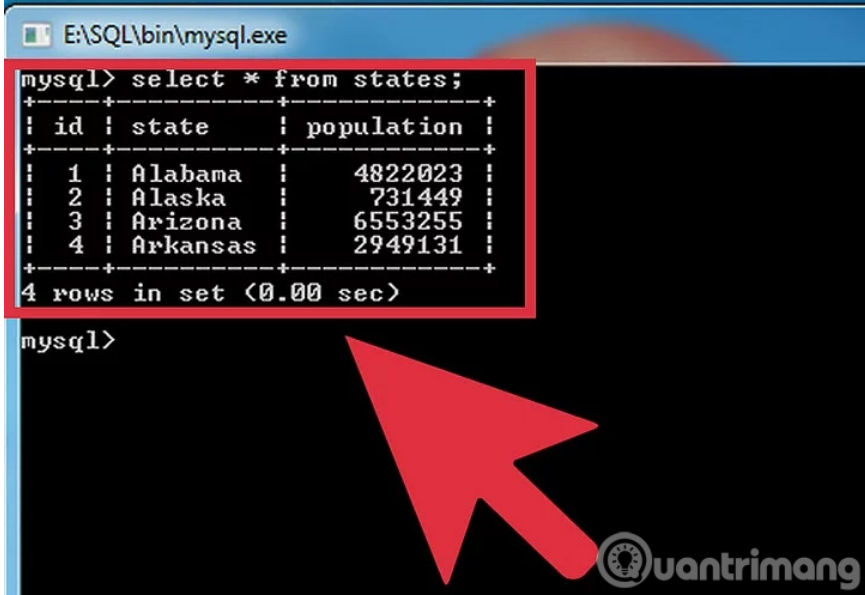


```
E:\SQL\bin\mysql.exe
mysql> insert into states(id,state,population) values ('
;
Query OK, 1 row affected (0.07 sec)
mysql> _
```

When creating the table successfully, start entering information. Use the command below to enter the first data: `INSERT INTO states (id, state, population) VALUES (NULL, 'Alabama', '4822023');`

Basically, this command requires the database to enter the information given into the three corresponding fields on the data table. Since the code section containing the NOT NULL statement, thanks to the AUTO_INCREMENT command, entering NULL as the parameter value will force it to automatically get a value of 1.

6. Enter more data



```
mysql> select * from states;
+----+-----+-----+
| id | state | population |
+----+-----+-----+
| 1  | Alabama | 4822023 |
| 2  | Alaska | 731449 |
| 3  | Arizona | 6553255 |
| 4  | Arkansas | 2949131 |
+----+-----+-----+
4 rows in set (0.00 sec)
```

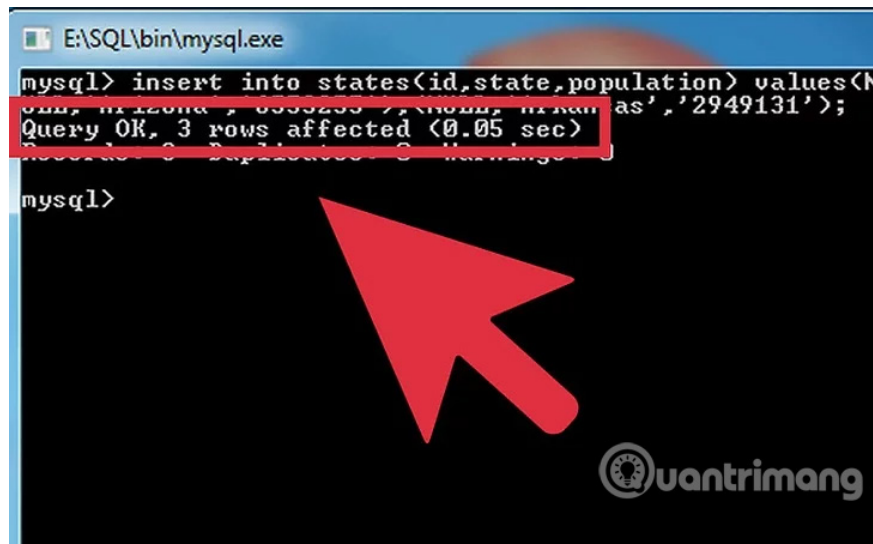
You can import multiple streams of data at the same time with one command. To enter the next three states, use the command: `INSERT INTO states (id, state, population) VALUES (NULL, 'Alaska', '731449'), (NULL, 'Arizona', '6553255'), (NULL, 'Arkansas', '2949131');`

This command will create a data table as shown below:

Your MySQL Database

Fields	id	state	population
Records:	1	Alabama	4822023
	2	Alaska	731449
	3	Arizona	6553255
	4	Arkansas	2949131

7. Query the new database



```
E:\SQL\bin\mysql.exe
mysql> insert into states(id,state,population) values(N
Query OK, 3 rows affected (0.05 sec)
mysql>
```

When the basic database is set up, you can enter query commands to retrieve specific results. First, enter the command: `SELECT * FROM states;`. This command will return the entire database, as shown by the "*" command - meaning "whole".

1. For advanced queries, enter the command: `SELECT state, population FROM states ORDER BY population;`. This command will return the data table with the states sorted by population field value instead of alphabetical order. The code field will not be displayed because you only retrieve data state and population.
2. To list the state's population in reverse order, enter the command: `(SELECT state, population FROM states ORDER BY population DESC);`. The DESC command will list them by descending value, from high to low instead of low.

Method 2: Learn more about MySQL

1. Install MySQL on Windows-based computers



1. Instructions for installing MySQL on Windows (and remote access)

2. Delete MySQL database

How to Delete a MySQL Database

Simple steps on deleting a MySQL database

Steps

User	Host	Password	User group	Grant	Action
<input type="checkbox"/> benjaminl	localhost	Yes		No	Edit Priv
<input type="checkbox"/> debian-sys-maint	localhost	Yes	ALL PRIVILEGES	Yes	Edit Priv
<input type="checkbox"/> pma	192.168.30.%	Yes	USAGE	No	Edit Priv
<input type="checkbox"/> root	127.0.0.1	No	ALL PRIVILEGES	Yes	Edit Priv
<input type="checkbox"/> root	192.168.30.%	No	ALL PRIVILEGES	No	Edit Priv

3. Learn PHP and MySQL

How to Learn PHP and MySQL

Creating a Form to Enter Data into Your Database | Continuing to Learn

PHP is one of the most widely-used programming languages on the internet, and it allows you to do much more than simple HTML. MySQL allows you to easily create and modify databases on your server. Used together, these tools allow you to create complex and powerful custom websites and databases. There's a lot to learn when it comes to PHP and MySQL, but getting up and running with the basics will only take a little while. Here's how to get started.

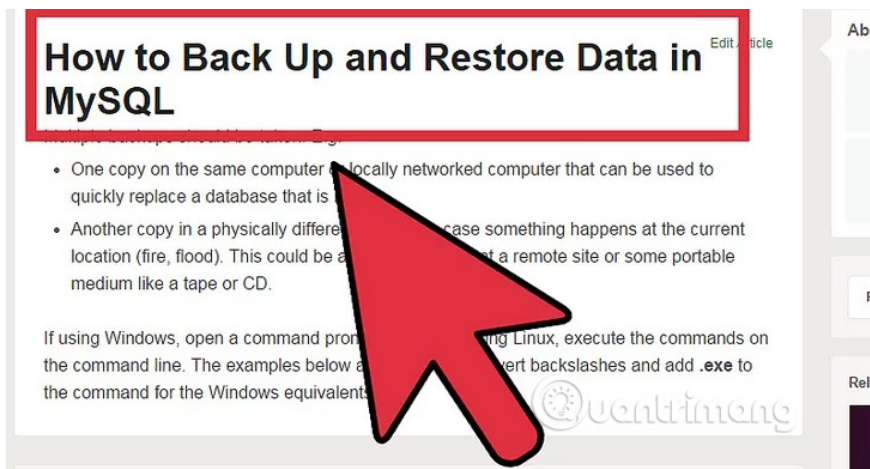
Part 1 of 5: Getting Prepared

PHP MySQL Database

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Learning PHP and MySQL will help you create entertainment and business websites.

4. Back up MySQL database



Data backup is recommended, especially with important databases.

5. Change the database structure



If the need to use the database changes, you may have to adjust the structure to handle other information.

Having fun!

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