

4.3 Creating and dropping databases

CREATE DATABASE and DROP DATABASE statements

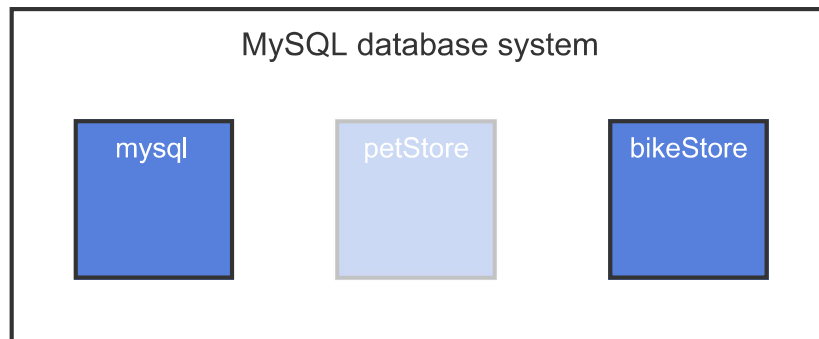
The **CREATE DATABASE** statement creates a new database. Once a database is created, tables can be added to the database. The **DROP DATABASE** statement deletes the database, including all tables in the database.

PARTICIPATION ACTIVITY

4.3.1: CREATE DATABASE and DROP DATABASE.



1 2 3 4 ◀ ✓ 2x speed



```
CREATE DATABASE petStore;  
CREATE DATABASE bikeStore;  
DROP DATABASE petStore;
```

The DROP DATABASE statement deletes the petStore database.

Captions ^

1. The mysql database is automatically installed by the MySQL database system and used for system administration.

2. The CREATE DATABASE statement creates a new database called petStore.
3. Additional databases can be created.
4. The DROP DATABASE statement deletes the petStore database.

[Feedback?](#)**PARTICIPATION
ACTIVITY****4.3.2: CREATE DATABASE and DROP DATABASE statements.**

Assume the database system currently contains only one user database, called 'university', in addition to system databases such as 'mySQL'.

- 1) The statement **CREATE DATABASE auto;** creates a database called 'auto'.

- ☒ True
☐ False

Correct

CREATE DATABASE creates a new database.



- 2) The statement **CREATE DATABASE university;** creates a second university database.

- ☐ True
☒ False

Correct

The university database already exists. Each database is uniquely named, so two databases named 'university' cannot exist.



- 3) The statement **DROP DATABASE university;** deletes the university database and all associated tables.

- ☒ True
☐ False

Correct

The university database includes all the tables in the university database, so the tables are deleted when the database is deleted.



4) The statement **DROP DATABASE nonprofit;** deletes the nonprofit database.

- ☐ True
- ☒ False

Correct

No database called 'nonprofit' exists in the database system. Only databases that exist can be deleted.

[Feedback?](#)

SHOW statement

The **SHOW** statement provides database users and administrators with information about databases, the database contents (tables, columns, etc.), and server status information.

Commonly used SHOW statements include:

- **SHOW DATABASES** lists databases available in the database system.
- **SHOW TABLES** lists tables available in the currently selected database.
- **SHOW COLUMNS** lists columns available in a specific table named by a FROM clause.
- **SHOW CREATE TABLE** shows the CREATE TABLE statement for a given table.

The **USE** statement selects a database and is required to show information about tables within a specific database.

PARTICIPATION ACTIVITY

4.3.3: SHOW statements show databases, tables, and columns.



1 2 3 4 2x speed

SHOW DATABASES;

Database
bikeStore
petStore
world

SHOW COLUMNS
FROM CountryLanguage;

Field	Type	Null	Key	Default	Extra
CountryCode	char(3)	NO	PRI		
Language	char(30)	NO	PRI		
IsOfficial	enum('T', 'F')	NO		F	
Percentage	float(4,1)	NO		0.0	

```
USE world;  
SHOW TABLES;
```

Tables_in_world

City
Country
CountryLanguage

SHOW COLUMNS lists the 4 columns in table CountryLanguage. The column name, data type, and other column characteristics are listed.

Captions ^

1. SHOW DATABASES lists 3 databases in a database system: bikeStore, petStore, and world.
2. USE world selects the database called world.
3. SHOW TABLES lists the 3 tables in database world: City, Country, and CountryLanguage.
4. SHOW COLUMNS lists the 4 columns in table CountryLanguage. The column name, data type, and other column characteristics are listed.

[Feedback?](#)

The world database is from [MySQL.com](https://www.mysql.com/)

**PARTICIPATION
ACTIVITY**

4.3.4: SHOW statements.



Refer to the animation above.

1) Which statement shows all databases in a database system?

- ☐ SHOW TABLES;
- ☒ SHOW DATABASES;
- ☐ SHOW COLUMNS;

Correct

SHOW DATABASES lists all databases in a database system.



2) Which statement shows all tables in the database petStore?

- ☒ SHOW TABLES;
- ☐ SHOW TABLES FROM petStore;
- ☐ SHOW DATABASES;

Correct

SHOW TABLES lists the tables in the currently selected database.

3) Which statement must precede a SHOW TABLES statement to see the tables from the bikeStore database?

- ☐ SHOW DATABASES;
- ☒ USE bikeStore;
- ☐ SHOW COLUMNS FROM bikeStore;

Correct

The USE statement selects the bikeStore database.

4) Which statement shows all the columns in the Country table?

- ☐ SHOW COLUMNS;
- ☐ SHOW COLUMNS Country;
- ☒ SHOW COLUMNS FROM Country;

Correct

SHOW COLUMNS lists the columns of a table named with the FROM clause.

[Feedback?](#)

Exploring further:

- [SHOW statements](#) from MySQL.com
- [Creating and Using a Database](#) from MySQL.com

How was this
section?



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