

Tutorial de comandos básicos de MySQL (Parte

1) 2013-07-27

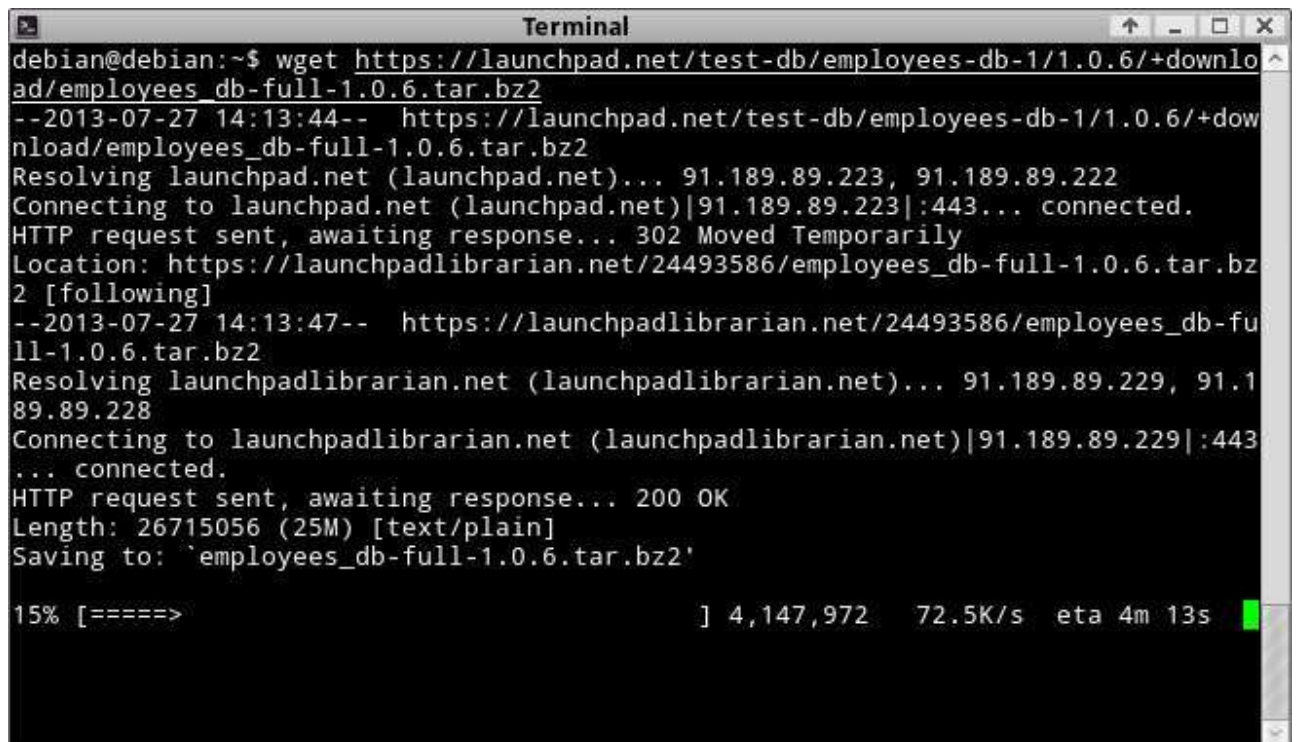
En este tutorial vamos a aprender las sentencias básicas de SQL desde el cliente de MySQL en Debian Wheezy

Para iniciar con este nanotutorial necesitamos tener instalado el cliente y servidor MySQL, puedes conocer más acerca de la instalación de ambos componentes en este [nanotutorial](#).

Descargar la base de datos de prueba

Para el desarrollo de este nanotutorial, vamos a utilizar una base de datos de prueba que esta disponible desde la documentación oficial de MySQL, para esto vamos a ejecutar el siguiente comando:

```
wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
```



```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
--2013-07-27 14:13:44-- https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
Resolving launchpad.net (launchpad.net)... 91.189.89.223, 91.189.89.222
Connecting to launchpad.net (launchpad.net)[91.189.89.223]:443... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://launchpadlibrarian.net/24493586/employees_db-full-1.0.6.tar.bz2 [following]
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Connecting to launchpadlibrarian.net (launchpadlibrarian.net)[91.189.89.229]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 26715056 (25M) [text/plain]
Saving to: `employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

Esto puede tardar algunos minutos dependiendo de la velocidad de tu enlace a internet.

```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
--2013-07-27 14:13:44-- https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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HTTP request sent, awaiting response... 200 OK
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Saving to: `employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

Descomprimir el archivo

Necesitamos ahora descomprimir el archivo que hemos descargado, para eso utilizaremos el siguiente comando:

```
tar -xvzf employees_db-full-1.0.6.tar.bz2
```

```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
--2013-07-27 14:13:44-- https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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HTTP request sent, awaiting response... 200 OK
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Saving to: `employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

Luego vamos a desplazarnos al directorio **employees_db/** con el siguiente comando:

```
cd employees_db
```

Importar la base de datos con el cliente de MySQL

Para iniciar la importación de la base de datos a través del cliente de MySQL debes ejecutar el siguiente comando (debes saber la contraseña del usuario root).

```
mysql -u root -p -t < employees.sql
```

```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
--2013-07-27 14:13:44-- https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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Saving to: `employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

Este proceso puede tardar unos minutos.

```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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15% [====>] 4,147,972 72.5K/s eta 4m 13s
```


Sentencias SQL

Ahora estamos listos para conocer un buen número de sentencias SQL con MySQL. Vamos a iniciar sesión con el cliente, para esto ejecuta el siguiente comando:

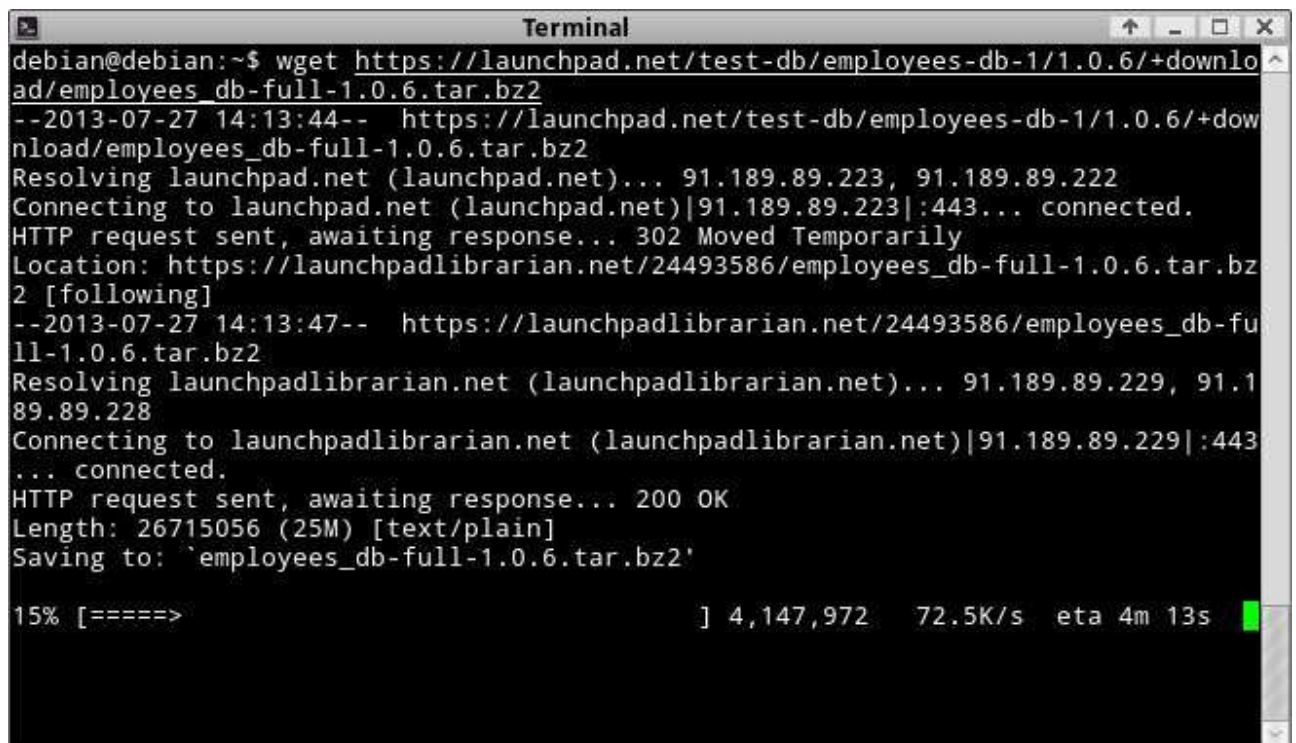
```
mysql -u root -p
```

Cada sentencia que ejecutemos en el cliente de MySQL debe de finalizar un el caracter ";" al final de la sentencia.

SHOW DATABASES

Esta sentencia lista todas las bases de datos disponibles para el usuario con el que hemos iniciado sesión. En nuestro caso, al haber iniciado sesión con el usuario **root**, vamos a ver todas las bases de datos del servidor.

```
SHOW DATABASES;
```

A terminal window titled "Terminal" showing a wget command and its output. The command is: `wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2`. The output shows the download progress, including the URL, the file size (26715056 bytes), and the download speed (72.5K/s). The progress bar shows 15% completion. The terminal output is as follows:

```
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
--2013-07-27 14:13:44-- https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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Saving to: `employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

USE <nombre_bd>

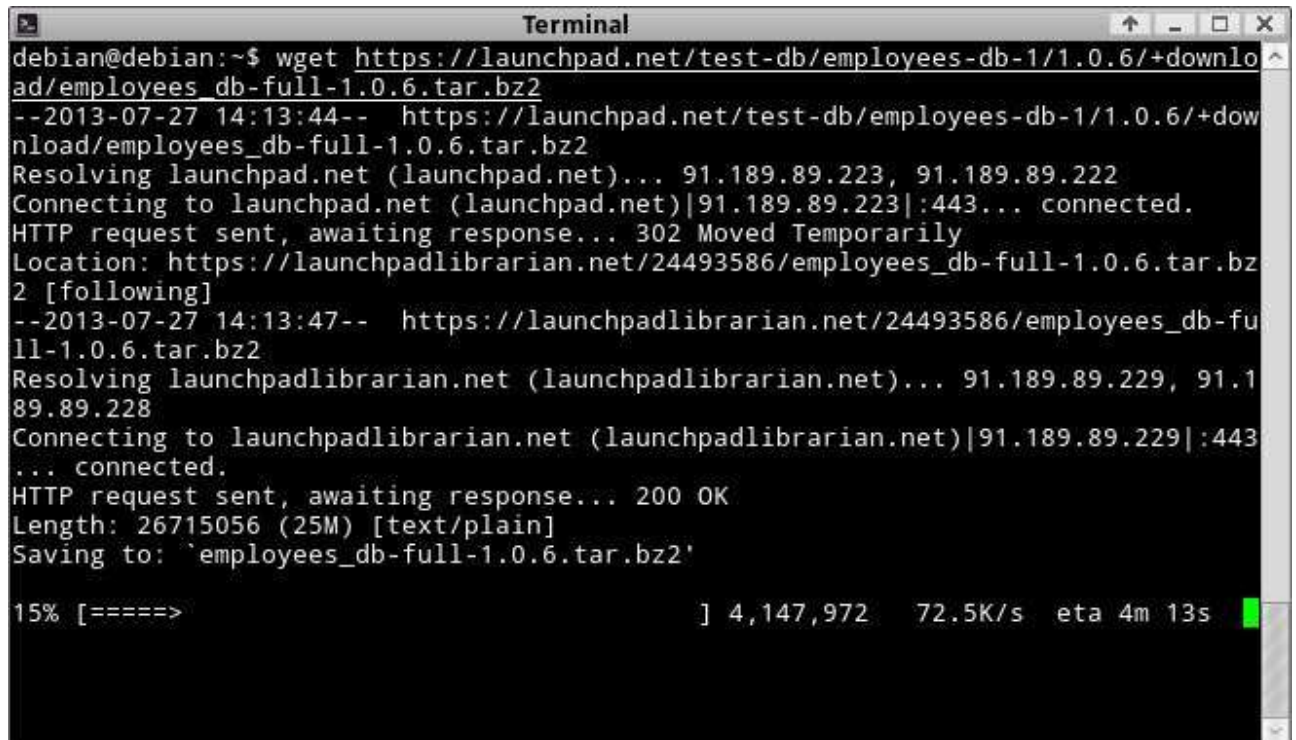
Esta sentencia nos sirve para cambiar a otra base de datos que el usuario tenga disponible.

```
USE employees;
```

SHOW TABLES

Esta sentencia lista todas las tablas disponibles en la base de datos.

```
SHOW TABLES;
```



```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
--2013-07-27 14:13:44-- https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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Saving to: `employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

SHOW FIELDS FROM <nombre_tabla>

Lista la estructura de una tabla, mostrando los nombres de los campos, el tipo de datos y otras propiedades.

```
SHOW FIELDS FROM employees;
```

SELECT * FROM <nombre_tabla>

Lista todas las columnas y registros de una tabla.

```
SELECT * FROM employees;
```

```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
--2013-07-27 14:13:44-- https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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Saving to: `employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

Ahora entienden porque tardo tanto la importación.

SELECT COUNT(*) FROM <nombre_tabla>

Devuelve el total de registros en la tabla.

```
SELECT COUNT(*) FROM employees;
```

```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
--2013-07-27 14:13:44-- https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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Saving to: 'employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

`SELECT * FROM <nombre_tabla> LIMIT <limite_filas> OFFSET <número_pagina>`

Lista un número de registros limitado.

```
SELECT * FROM employees LIMIT 10;
```



```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
--2013-07-27 14:13:44-- https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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Saving to: `employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

También podemos definir el número de página deseado.

```
SELECT * FROM employees LIMIT 10 OFFSET 0;
```

```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
--2013-07-27 14:13:44-- https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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HTTP request sent, awaiting response... 200 OK
Length: 26715056 (25M) [text/plain]
Saving to: `employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

Para obtener la siguiente página basta con incrementar el **OFFSET**.

```
SELECT * FROM employees LIMIT 10 OFFSET 1;
```

```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

Este es el concepto de una paginación.

SELECT * FROM <nombre_tabla> ORDER BY <nombre_campo>

Lista los registros ordenados por un campo. El ordenamiento puede ser ascendente o descendente.

```
SELECT * FROM employees ORDER BY first_name ASC LIMIT 10;
SELECT * FROM employees ORDER BY first_name DESC LIMIT 10;
```

Si ven, podemos combinarlos con las otras sentencias.

```
SELECT * FROM employees ORDER BY first_name ASC LIMIT 10 OFFSET 1;
```

```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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Saving to: `employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

`SELECT MAX|MIN(<nombre_campo>) FROM <nombre_tabla>`

Muestra el valor mayor o menor del campo en la tabla.

```
SELECT MAX(hire_date) FROM employees;
SELECT MIN(hire_date) FROM employees;
```

```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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Saving to: 'employees_db-full-1.0.6.tar.bz2'

15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

SELECT DISTINCT(<nombre_campo>) FROM <nombre_tabla>

Muestra los los diferentes valores de un campo en la tabla. Ningún valor aparecerá repetido.

```
SELECT DISTINCT(gender) FROM employees;
```

SELECT <nombre_campo> FROM <nombre_tabla>

Lista campos específicos de la tabla. Si hay más de un campo, estos deben delimitarse por una ",".

```
SELECT first_name, last_name, gender FROM employees LIMIT 10;
```



```
Terminal
debian@debian:~$ wget https://launchpad.net/test-db/employees-db-1/1.0.6/+download/employees_db-full-1.0.6.tar.bz2
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15% [====>] 4,147,972 72.5K/s eta 4m 13s
```

SELECT SUM(<nombre_campo>) FROM <nombre_tabla>

Devuelve la sumatoria de campos numéricos.

```
SELECT SUM(salary) FROM salaries;
```

SELECT * FROM <nombre_tabla> WHERE <condiciones>

La sentencia **WHERE** nos sirve para filtrar registros por una serie de condiciones definidas por nosotros. Las condiciones deben cumplirse y pueden ser anidadas por los operadores lógicos **OR** y **AND**.

```
SELECT * FROM employees WHERE gender = 'M' AND last_name = 'Facello' LIMIT 10;
```

En este ejemplo estamos filtrando los registros donde el género sea **M** y además el apellido sea igual a **Facello**.

```
SELECT * FROM employees WHERE gender = 'M' AND (last_name = 'Facello' OR last_name = 'Simmel') LIMIT 10;
```

En el segundo ejemplo el campo género debe ser **M** y el apellido puede ser **Facello** o **Simmel**. Cuando se trabaja con diferentes operadores lógicos es necesario agruparlos por paréntesis para evitar malas interpretaciones del motor SQL.

Existen otros operadores condicionales como por ejemplo:

> mayor que

```
SELECT * FROM <nombre_tabla> WHERE <nombre_campo> > <valor>;
```

< menor que

```
SELECT * FROM <nombre_tabla> WHERE <nombre_campo> < <valor>;
```

>= mayor o igual que

```
SELECT * FROM <nombre_tabla> WHERE <nombre_campo> >= <valor>;
```

<= menor o igual que

```
SELECT * FROM <nombre_tabla> WHERE <nombre_campo> <= <valor>;
```

<> diferente a

```
SELECT * FROM <nombre_tabla> WHERE <nombre_campo> <> <valor>;
```

!= no igual que

```
SELECT * FROM <nombre_tabla> WHERE <nombre_campo> != <valor>;
```

IS NULL nulo

```
SELECT * FROM <nombre_tabla> WHERE <nombre_campo> IS NULL;
```

IS NOT NULL no nulo

```
SELECT * FROM <nombre_tabla> WHERE <nombre_campo> IS NOT NULL;
```