



INSTITUTO TECNOLÓGICO SUPERIOR DE JEREZ

6to Semestre



Ingeniería en Sistemas Computacionales

ADMINISTRACIÓN DE BASES DE DATOS

Actividad: Reporte de práctica “Instalación de BD en
Debian”

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INTRODUCCIÓN

En el presente documento, se planea dar a conocer algunas instrucciones que se realizaron para la instalación en el DEBIAN propio, de las bases de datos de ejemplo que tiene MySQL.

Así mismo, se muestran los comandos que fueron utilizados a través de capturas de pantalla.

Y finalmente, se da una conclusión personal.

OBJETIVO

*Instalar en el DEBIAN propio las bases de ejemplo que tiene MySQL.

PROCEDIMIENTO

1. Tomar captura de la pantalla y la descripción de los pasos realizados para la instalación de cada base de datos.

RESULTADOS

Creación de todas las bases de datos

```
root@localhost[(none)]>show databases;
+-----+
| Database      |
+-----+
| information_schema |
| mysql          |
| performance_schema |
| pruebas         |
| usuarios_sistema |
+-----+
5 rows in set (0.01 sec)

root@localhost[(none)]>create database sakila;
Query OK, 1 row affected (0.00 sec)

root@localhost[(none)]>create database world_x;
Query OK, 1 row affected (0.00 sec)

root@localhost[(none)]>create database world;
Query OK, 1 row affected (0.00 sec)

root@localhost[(none)]>create database menagerie;
Query OK, 1 row affected (0.00 sec)

root@localhost[(none)]>create database employees;
Query OK, 1 row affected (0.00 sec)

root@localhost[(none)]>exit
Bye
```

Se instalan los archivos en la base de datos

```
OpenSSH SSH client
Enter password:
ERROR 1146 (42S02) at line 45: Table 'sakila.actor' doesn't exist
root@india:~# mysql -u root -p sakila < /root/sakila-db/sakila-schema.sql
Enter password:
root@india:~# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 43
Server version: 5.5.62-0+deb8u1 (Debian)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

root@localhost[(none)]>use sakila
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
root@localhost[sakila]>show tables
-> ;
+-----+
| Tables_in_sakila |
+-----+
| actor           |
| actor_info      |
| address         |
| category        |
| city            |
| country          |
| customer        |
| customer_list   |
| film             |
| film_actor      |
| film_category   |
| film_list       |
| film_text       |
| inventory       |
| language         |
| nicer_but_slower_film_list |
| payment          |
| rental           |
| sales_by_film_category |
| sales_by_store  |
| staff            |
| staff_list      |
+-----+
```

```
Seleccionar OpenSSH SSH client
+-----+
23 rows in set (0.00 sec)

root@localhost[sakila]>exit
Bye
root@india:~# mysql -u root -p sakila < /root/sakila-db/sakila-data.sql
Enter password:
root@india:~#
```

Termina Sakila

Empieza World

```
OpenSSH SSH client
Enter password:
root@india:~# mysql -u root -p world < /root/world.sql
Enter password:
root@india:~#
```

Termina World

Empieza menagerie

```
Buffy Harold do' at line 1
root@india:~# mysql -u root -p menagerie < /root/menagerie-db/cr_event_tbl.sql
Enter password:
root@india:~# mysql -u root -p menagerie < /root/menagerie-db/ins_puff_rec.sql
Enter password:
root@india:~# mysql -u root -p menagerie < /root/menagerie-db/load_pet_tbl.sql
Enter password:
ERROR 1148 (42000) at line 5: The used command is not allowed with this MySQL version
root@india:~# nano /root/menagerie-db/load_pet_tbl.sql
root@india:~# mysql -u root -p menagerie < /root/menagerie-db/load_pet_tbl.sql
Enter password:
ERROR 1148 (42000) at line 5: The used command is not allowed with this MySQL version
root@india:~#
```

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

root@localhost[(none)]>exit
Bye
root@india:~# mysql -u root -p --local_infile=1 menagerie
Enter password:
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 55
Server version: 5.5.62-0+deb8u1 (Debian)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

root@localhost[menagerie]>LOAD DATA LOCAL INFILE '/root/menagerie-db/pet.txt' INTO TABLE pet;
Query OK, 8 rows affected (0.04 sec)
Records: 8 Deleted: 0 Skipped: 0 Warnings: 0

root@localhost[menagerie]>LOAD DATA LOCAL INFILE '/root/menagerie-db/event.txt' INTO TABLE event;
Query OK, 10 rows affected, 2 warnings (0.04 sec)
Records: 10 Deleted: 0 Skipped: 0 Warnings: 2
```

Termina menagerie

Empieza employees

```
OpenSSH SSH client
Bye
root@india:~# mysql -u root -p employees </root/test_db_master/employees.sql
-bash: /root/test_db_master/employees.sql: No such file or directory
root@india:~# mysql -u root -p employees </root/test_db-master/employees.sql
Enter password:
INFO
CREATING DATABASE STRUCTURE
INFO
storage engine: InnoDB
INFO
LOADING departments
INFO
LOADING employees
INFO
LOADING dept_emp
INFO
LOADING dept_manager
INFO
LOADING titles
INFO
LOADING salaries
data_load_time_diff
NULL
root@india:~# mysql -u root -p employees </root/test_db-master/employees_partitioned.sql
Enter password:
INFO
CREATING DATABASE STRUCTURE
INFO
storage engine: InnoDB
INFO
LOADING departments
ERROR at line 163: Failed to open file 'load_departments.dump', error: 2
root@india:~# mysql -u root -p employees </root/test_db-master/employees_partitioned.sql
Enter password:
INFO
CREATING DATABASE STRUCTURE
INFO
storage engine: InnoDB
INFO
LOADING departments
INFO
LOADING employees
INFO
LOADING dept_emp
INFO
LOADING dept_manager
INFO
LOADING titles
INFO
LOADING salaries
```

```
OpenSSH SSH client
INFO
LOADING salaries
data_load_time_diff
NULL
root@india:~# mysql -u root -p employees </root/test_db-master/employees_partitioned_5.1.sql
Enter password:
INFO
CREATING DATABASE STRUCTURE
INFO
storage engine: InnoDB
INFO
LOADING departments
INFO
LOADING employees
INFO
LOADING dept_emp
INFO
LOADING dept_manager
INFO
LOADING titles
INFO
LOADING salaries
data_load_time_diff
NULL
root@india:~# mysql -u root -p employees </root/test_db-master/objects.sql
Enter password:
root@india:~# mysql -u root -p employees </root/test_db-master/show_elapsed.sql
Enter password:
data_load_time_diff
NULL
root@india:~# mysql -u root -p employees </root/test_db-master/test_employees_md5.sql
-bash: /root/test_db-master/test_employees_md5.sql: No such file or directory
root@india:~# mysql -u root -p employees </root/test_db-master/test_employees_md5.sql
Enter password:
INFO
TESTING INSTALLATION
table_name    expected_records      expected_crc
employees      300024   4ec56ab5ba37218d187cf6ab09ce1aa1
departments     9        d1af5e170d2d1591d776d5638d71fc5f
dept_manager    24       8720e2f0853ac9096b689c14664f847e
dept_emp        331603   ccf6fe516f990bdaa49713fc478701b7
titles          443308   bfa016c472df68e70a03facafabcb0a8
salaries         2844047  fd220654e95aa1b169624ffe3fca934
table_name    found_records      found_crc
employees      300024   4ec56ab5ba37218d187cf6ab09ce1aa1
departments     9        d1af5e170d2d1591d776d5638d71fc5f
dept_manager    24       8720e2f0853ac9096b689c14664f847e
dept_emp        331603   ccf6fe516f990bdaa49713fc478701b7
titles          443308   bfa016c472df68e70a03facafabcb0a8
salaries         2844047  fd220654e95aa1b169624ffe3fca934
```

```

[OpenSSH SSH client]
departments      9      d1af5e170d2d1591d776d5638d71fc5f
dept_manager    24      8720e2f0853ac9096b689c14664f847e
dept_emp        331603  ccf6fe516f990bdaa49713fc478701b7
titles          443308  bfa@16c472df68e70a03facafa1bc0a8
salaries         2844047  fd220654e95aea1b169624ffe3fc934
table_name      records_match  crc_match
employees        OK      ok
departments      OK      ok
dept_manager     OK      ok
dept_emp         OK      ok
titles           OK      ok
salaries          OK      ok
computation_time
00:00:15
summary result
CRC   OK
count  OK
root@india:~# mysql -u root -p employees </root/test_db-master/test_employees_sha.sql
Enter password:
INFO
TESTING INSTALLATION
table_name      expected_records      expected_crc
employees        300024      4d4aa689914d8fd41db7e45c2168e7dc9697359
departments      9      4b315afa0e35ca6649df897b958345bcb3d2b764
dept_manager     24      9687a7d6f93ca8847388a42a6d8d93982a841c6c
dept_emp         331603      d95ab9fe07df0865f592574b3b33b9c741d9fd1b
titles          443308      d12d5f746b88f07e69b9e36675b6067abb01b60e
salaries         2844047      b5a1785c27d75e33a4173aaa22ccf41ebd7d4a9f
table_name      found_records      found_crc
employees        300024      4d4aa689914d8fd41db7e45c2168e7dc9697359
departments      9      4b315afa0e35ca6649df897b958345bcb3d2b764
dept_manager     24      9687a7d6f93ca8847388a42a6d8d93982a841c6c
dept_emp         331603      d95ab9fe07df0865f592574b3b33b9c741d9fd1b
titles          443308      d12d5f746b88f07e69b9e36675b6067abb01b60e
salaries         2844047      b5a1785c27d75e33a4173aaa22ccf41ebd7d4a9f
table_name      records_match  crc_match
employees        OK      ok
departments      OK      ok
dept_manager     OK      ok
dept_emp         OK      ok
titles           OK      ok
salaries          OK      ok
computation_time
00:00:17
summary result
CRC   OK
count  OK
root@india:~#

```

Termina employees

1. Captura de pantalla de la conexión a cada BD desde MySQL, donde aparezca su conexión a través de su cliente SSH (por ejemplo, Putty).

```
[1] Seleccionar OpenSSH SSH client
C:\Users\aochi>ssh root@176.48.16.14
root@176.48.16.14's password:
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Wed Mar  4 14:48:19 2020 from 176.48.16.1

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Wed Mar  4 14:48:19 2020 from 176.48.16.1
root@India:~# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 64
Server version: 5.5.62-0+deb8u1 (Debian)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

root@localhost[(none)]>show databases;
+-----+
| Database      |
+-----+
| information_schema |
| employees      |
| menagerie      |
| mysql          |
| performance_schema |
| pruebas        |
| sakila         |
| usuarios_sistema |
| world          |
| world_x        |
+-----+
10 rows in set (0.00 sec)
```

2. Además de una consulta de todas las bases de datos.

```
root@localhost[(none)]>show databases;
+-----+
| Database      |
+-----+
| information_schema |
| employees      |
| menagerie      |
| mysql          |
| performance_schema |
| pruebas        |
| sakila         |
| usuarios_sistema |
| world          |
| world_x        |
+-----+
10 rows in set (0.00 sec)
```

3. Una consulta de todas las tablas de las 5 bases de datos.

EN ESTE PUNTO RECORDÉ LO DE CAMBIAR EL COLOR

```
OpenSSH SSH client
You can turn off this feature to get a quicker startup with -A

Database changed
root@localhost[employees]>show tables;
+-----+
| Tables_in_employees |
+-----+
| current_dept_emp
| departments
| dept_emp
| dept_emp_latest_date
| dept_manager
| employees
| salaries
| titles
| v_full_departments
| v_full_employees
+-----+
10 rows in set (0.00 sec)

root@localhost[employees]>use menagerie
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
root@localhost[menagerie]>show tables;
+-----+
| Tables_in_menagerie |
+-----+
| event
| pet
+-----+
2 rows in set (0.00 sec)

root@localhost[menagerie]>use sakila
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
root@localhost[sakila]>show tables;
+-----+
| Tables_in_sakila |
+-----+
| actor
| actor_info
| address
| category
| city
| country
+-----+
```

```
OpenSSH SSH client
root@localhost[sakila]>show tables;
+-----+
| Tables_in_sakila |
+-----+
| actor
| actor_info
| address
| category
| city
| country
| customer
| customer_list
| film
| film_actor
| film_category
| film_list
| film_text
| inventory
| language
| nicer_but_slower_film_list
| payment
| rental
| sales_by_film_category
| sales_by_store
| staff
| staff_list
| store
+-----+
23 rows in set (0.00 sec)

root@localhost[sakila]>use world
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
root@localhost[world]>show tables;
+-----+
| Tables_in_world |
+-----+
| city
| country
| countrylanguage
+-----+
3 rows in set (0.00 sec)

root@localhost[world]>
```

4. Una consulta de todos los registros de una tabla, para cada una de las BD.

OpenSSH SSH client

499955	2005	1996-10-02	9999-01-01
499956	2005	1997-02-25	1992-11-28
499957	2003	1997-02-25	1992-11-28
499958	2004	1994-09-26	1996-08-11
499959	2004	1991-11-08	9999-01-01
499960	2007	1989-09-16	9999-01-01
499961	2007	1988-07-04	9999-01-01
499962	2008	1995-06-20	9999-01-01
499963	2008	1980-08-07	9999-01-01
499964	2005	1994-09-25	9999-01-01
499965	2005	1992-09-25	9999-01-01
499966	2007	1985-06-13	9999-01-01
499967	2007	1996-08-15	2001-02-27
499968	2001	1991-10-08	9999-01-01
499969	2001	1998-07-27	9999-01-01
499970	2001	1995-01-09	9999-01-01
499971	2004	1997-03-05	2000-12-01
499972	2005	1985-02-01	9999-01-01
499973	2005	1994-02-01	9999-01-01
499974	2004	1996-12-11	9999-01-01
499975	2002	1996-10-19	1997-07-23
499976	2007	1988-12-26	9999-01-01
499977	2002	1999-12-28	9999-01-01
499978	2008	1996-07-09	1997-12-14
499979	2005	1996-08-11	9999-01-01
499980	2007	1997-01-11	9999-01-01
499981	2003	1991-01-07	9999-01-01
499982	2009	1999-04-08	2000-05-16
499983	2009	2001-12-09	9999-01-01
499984	2008	1989-07-30	9999-01-01
499985	2008	1997-02-11	9999-01-01
499986	2007	1985-08-11	9999-01-01
499987	2007	1999-12-22	9999-01-01
499988	2007	1994-02-23	2001-10-09
499989	2002	1995-10-29	2001-03-07
499990	2005	1999-10-28	9999-01-01
499991	2005	1997-02-11	9999-01-01
499992	2001	1995-05-31	9999-01-01
499993	2008	1997-04-07	9999-01-01
499994	2004	1993-02-22	1993-10-27
499995	2004	1997-01-01	9999-01-01
499996	2004	1991-05-13	9999-01-01
499997	2005	1987-08-30	9999-01-01
499998	2002	1993-12-27	9999-01-01
499999	2008	1997-11-30	9999-01-01

00024 rows in set (1.81 sec)

registros de una tabla de la bd
employees

```
root@localhost[employees]>use menagerie
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
root@localhost[menagerie]>show tables;
+-----+
| Tables_in_menagerie |
+-----+
| event               |
| pet                 |
+-----+
2 rows in set (0.00 sec)

root@localhost[menagerie]>SELECT * FROM pet;
+-----+-----+-----+-----+-----+-----+
| name   | owner  | species | sex   | birth   | death  |
+-----+-----+-----+-----+-----+-----+
| Fluffy | Harold | cat    | f    | 1993-02-04 | NULL  |
| Claws  | Gwen   | cat    | m    | 1994-03-17 | NULL  |
| Buffy  | Harold | dog    | f    | 1989-05-13 | NULL  |
| Fang   | Benny  | dog    | m    | 1990-08-27 | NULL  |
| Bowser | Diane  | dog    | m    | 1979-08-31 | 1995-07-29 |
| Chirpy | Gwen   | bird   | f    | 1998-09-11 | NULL  |
| Whistler| Gwen   | bird   | NULL | 1997-12-09 | NULL  |
| Slim   | Benny  | snake  | m    | 1996-04-29 | NULL  |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

root@localhost[menagerie]>
```

Sakila

```

[1] OpenSSH SSH client
8 rows in set (0.00 sec)

root@localhost[menagerie]>use sakila
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
root@localhost[sakila]>show tables;
+-----+
| Tables_in_sakila |
+-----+
| actor           |
| actor_info      |
| address         |
| category        |
| city            |
| country          |
| customer        |
| customer_list   |
| film             |
| film_actor      |
| film_category   |
| film_list       |
| film_text       |
| inventory       |
| language         |
| nicer_but_slower_film_list |
| payment          |
| rental           |
| sales_by_film_category |
| sales_by_store  |
| staff            |
| staff_list      |
| store            |
+-----+
23 rows in set (0.00 sec)

root@localhost[sakila]>SELECT * FROM sales;
ERROR 1146 (42S02): Table 'sakila.sales' doesn't exist
root@localhost[sakila]>SELECT * FROM store;
+-----+-----+-----+
| store_id | manager_staff_id | address_id | last_update |
+-----+-----+-----+
| 1 | 1 | 1 | 2006-02-15 04:57:12 |
| 2 | 2 | 2 | 2006-02-15 04:57:12 |
+-----+-----+-----+
2 rows in set (0.01 sec)

root@localhost[sakila]>

```

```

[1] OpenSSH SSH client
root@localhost[sakila]>use world
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
root@localhost[world]>show tables;
+-----+
| Tables_in_world |
+-----+
| city            |
| country          |
| countrylanguage |
+-----+
3 rows in set (0.00 sec)

root@localhost[world]>SELECT * FROM city;
+----+-----+-----+-----+
| ID | Name | CountryCode | District | Population |
+----+-----+-----+-----+
| 1 | Kabul | AFG | Kabul | 1780000 |
| 2 | Qandahar | AFG | Qandahar | 237500 |
| 3 | Herat | AFG | Herat | 186800 |
| 4 | Mazar-e-Sharif | AFG | Balkh | 127800 |
| 5 | Amsterdam | NLD | Noord-Holland | 731200 |
| 6 | Rotterdam | NLD | Zuid-Holland | 593321 |
| 7 | Haag | NLD | Zuid-Holland | 440900 |
| 8 | Utrecht | NLD | Utrecht | 234323 |
| 9 | Eindhoven | NLD | Noord-Brabant | 201843 |
| 10 | Tilburg | NLD | Noord-Brabant | 193238 |
| 11 | Groningen | NLD | Groningen | 172701 |
| 12 | Breda | NLD | Noord-Brabant | 160398 |
| 13 | Apeldoorn | NLD | Gelderland | 153491 |
| 14 | Nijmegen | NLD | Gelderland | 152463 |
| 15 | Enschede | NLD | Overijssel | 149544 |
| 16 | Haarlem | NLD | Noord-Holland | 148772 |
| 17 | Almere | NLD | Flevoland | 142465 |
| 18 | Arnhem | NLD | Gelderland | 138020 |
| 19 | Zaandstad | NLD | Noord-Holland | 135621 |
| 20 | s-Hertogenbosch | NLD | Noord-Brabant | 129170 |
| 21 | Amersfoort | NLD | Utrecht | 126270 |
| 22 | Maastricht | NLD | Limburg | 122087 |
| 23 | Dordrecht | NLD | Zuid-Holland | 119811 |
| 24 | Leiden | NLD | Zuid-Holland | 117196 |
| 25 | Haarlemmermeer | NLD | Noord-Holland | 110722 |
| 26 | Zoetermeer | NLD | Zuid-Holland | 110214 |
| 27 | Emmen | NLD | Drenthe | 105853 |
| 28 | Zwolle | NLD | Overijssel | 105819 |
| 29 | Ede | NLD | Gelderland | 101574 |
+----+-----+-----+-----+

```

CONCLUSIÓN

De manera general, se puede concluir que una vez que se investigó la manera en qué se instalan las bases en Debian, fue mucho más sencillo instalar las bases de datos, sin embargo, lo que me demoró un poco más fue las consultas, pero a la hora de capturarlas, no porque hayan sido complicadas.

Cabe mencionar, que al inicio se me complicó un poco el encontrar los comandos adecuados, sin embargo, la instalación se logró.

REFERENCIAS

Imagina. (2018). Importar o Exportar base de datos Mysql via SSH. 04/03/2020, de Imagina Sitio web:
<https://clientes.imaginacolombia.com/knowledgebase/158/Importar-o-Exportar-base-de-datos-Mysql-via-SSH.html>

José M^a BaqueroJosé M^a Baquero García Alberto BlanchAlberto Blanch Manuel LeónManuel León María García RuesgasMaría García Ruesgas Sergio AriasSergio Arias. (Desconocido). Cómo utilizar el comando SCP para transferir archivos hacia y desde los servidores. 04/03/2020, de arsys Sitio web:
<https://www.arsys.es/blog/programacion/utilizar-comando-scp/>