

# Instituto Tecnológico Superior de Jerez



**Jerez de García Salinas a 04 de marzo del 2020**

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**S17070162**

**INGENIERÍA EN SISTEMAS COMPUTACIONALES**

**Administración de Bases de Datos.**

**6to. SEMESTRE.**

**Tema 3**

**Reporte de Práctica.**

**I.S.C. Salvador Acevedo Sandoval.**

## Procedimiento.

Primeramente, se inició el proceso para pasar los archivos locales al servidor Debian mediante el comando scp.

```
C:\Windows\system32\cmd.exe
C:\>scp world.sql root@176.48.16.23:/home/Respaldo/
root@176.48.16.23's password:
world.sql
100% 389KB 10.1MB/s 00:00

C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>scp world_x-db.rar root@176.48.16.23:/home/Respaldo/
root@176.48.16.23's password:
world_x-db.rar
100% 90KB 5.6MB/s 00:00

C:\>
C:\>
C:\>
C:\>scp sakila-db.rar root@176.48.16.23:/home/Respaldo/
root@176.48.16.23's password:
sakila-db.rar
100% 650KB 11.9MB/s 00:00

C:\>scp menagerie-db.rar root@176.48.16.23:/home/Respaldo/
root@176.48.16.23's password:
menagerie-db.rar
100% 2503 2.4KB/s 00:00

C:\>scp test_db-master.rar root@176.48.16.23:/home/Respaldo/
root@176.48.16.23's password:
test_db-master.rar
100% 29MB 11.3MB/s 00:02

C:\>_
```

Una vez que las bases de datos estuvieran en el servidor, se descomprimieron los archivos para poder ser utilizados.

```
OpenSSH SSH client
root@sierra:/home/Respaldo# ls
menagerie-db.rar my.cnf my.cnf.tar.gz sakila-db.rar test_db-master.rar world.sql world_x-db.rar
root@sierra:/home/Respaldo#
root@sierra:/home/Respaldo#
root@sierra:/home/Respaldo# unrar x menagerie-db.rar

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Extracting from menagerie-db.rar

Creating      menagerie-db                      OK
Extracting   menagerie-db/cr_event_tbl.sql      OK
Extracting   menagerie-db/cr_pet_tbl.sql         OK
Extracting   menagerie-db/event.txt              OK
Extracting   menagerie-db/ins_puff_rec.sql       OK
Extracting   menagerie-db/load_pet_tbl.sql       OK
Extracting   menagerie-db/pet.txt               OK
Extracting   menagerie-db/README.txt             OK
All OK
root@sierra:/home/Respaldo# ls
menagerie-db menagerie-db.rar my.cnf my.cnf.tar.gz sakila-db.rar test_db-master.rar world.sql world_x-db.rar
root@sierra:/home/Respaldo#
```

```
OpenSSH SSH client
root@sierra:/home/Respaldo# unrar x sakila-db.rar

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Extracting from sakila-db.rar

Creating      sakila-db                      OK
Extracting    sakila-db/sakila-data.sql      OK
Extracting    sakila-db/sakila-schema.sql    OK
Extracting    sakila-db/sakila.mwb          OK
All OK
root@sierra:/home/Respaldo# unrar x test_db-master.rar

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Extracting from test_db-master.rar

Creating      test_db-master                 OK
Extracting    test_db-master/Changelog       OK
Extracting    test_db-master/employees.sql   OK
Extracting    test_db-master/employees_partitioned.sql OK
Extracting    test_db-master/employees_partitioned_5.1.sql OK
Creating      test_db-master/images          OK
Extracting    test_db-master/images/employees.gif OK
Extracting    test_db-master/images/employees.jpg OK
Extracting    test_db-master/images/employees.png OK
Extracting    test_db-master/load_departments.dump OK
Extracting    test_db-master/load_dept_emp.dump OK
```

```
OpenSSH SSH client
root@sierra:/home/Respaldo# ls
menagerie-db      my.cnf      sakila-db      test_db-master  world.sql
menagerie-db.rar  my.cnf.tar.gz sakila-db.rar  test_db-master.rar world_x-db.rar
root@sierra:/home/Respaldo#
root@sierra:/home/Respaldo# unrar x world_x-db.rar

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Extracting from world_x-db.rar

Creating      world_x-db                     OK
Extracting    world_x-db/README.txt          OK
Extracting    world_x-db/world_x.sql         OK
All OK
root@sierra:/home/Respaldo#
```

Una vez que las carpetas estuvieran descomprimidas, se procedió a importar las bases de datos mediante el comando “source” seguido de la ruta del archivo .sql y el nombre del mismo.

[illegible][illegible]

Lo mismo se realizó en todas las Bases de datos.

En este caso primeramente se instaló la base de datos sakila-schema.sql y posteriormente la base de datos sakila-data.sql.

```
OpenSSH SSH client
```

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

```
root@localhost [(none)]> source /home/Respaldo/sakila-db/sakila-schema.sql
```

[illegible]

```
OpenSSH SSH client

Query OK, 0 rows affected (0.05 sec)
Query OK, 0 rows affected (0.05 sec)
Query OK, 0 rows affected (0.08 sec)
Query OK, 0 rows affected (0.05 sec)
Query OK, 0 rows affected (0.04 sec)
Query OK, 0 rows affected (0.04 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
root@localhost [sakila]> source /home/Respaldo/sakila-db/sakila-data.sql
```

```
OpenSSH SSH client

Query OK, 0 rows affected (0.00 sec)
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.08 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0
Query OK, 0 rows affected (0.01 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
root@localhost [sakila]>
```

Para la base de datos employees fue el mismo procedimiento que en las anteriores. Aunque en esta se tenia que iniciar mysql en la carpeta donde se encontraba el archivo .sql.

```
OpenSSH SSH client
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)]> source employees.sql
```

```
OpenSSH SSH client

Query OK, 24918 rows affected (0.26 sec)
Records: 24918  Duplicates: 0  Warnings: 0

Query OK, 24923 rows affected (0.20 sec)
Records: 24923  Duplicates: 0  Warnings: 0

Query OK, 24924 rows affected (0.37 sec)
Records: 24924  Duplicates: 0  Warnings: 0

Query OK, 24920 rows affected (0.21 sec)
Records: 24920  Duplicates: 0  Warnings: 0

Query OK, 24920 rows affected (0.24 sec)
Records: 24920  Duplicates: 0  Warnings: 0

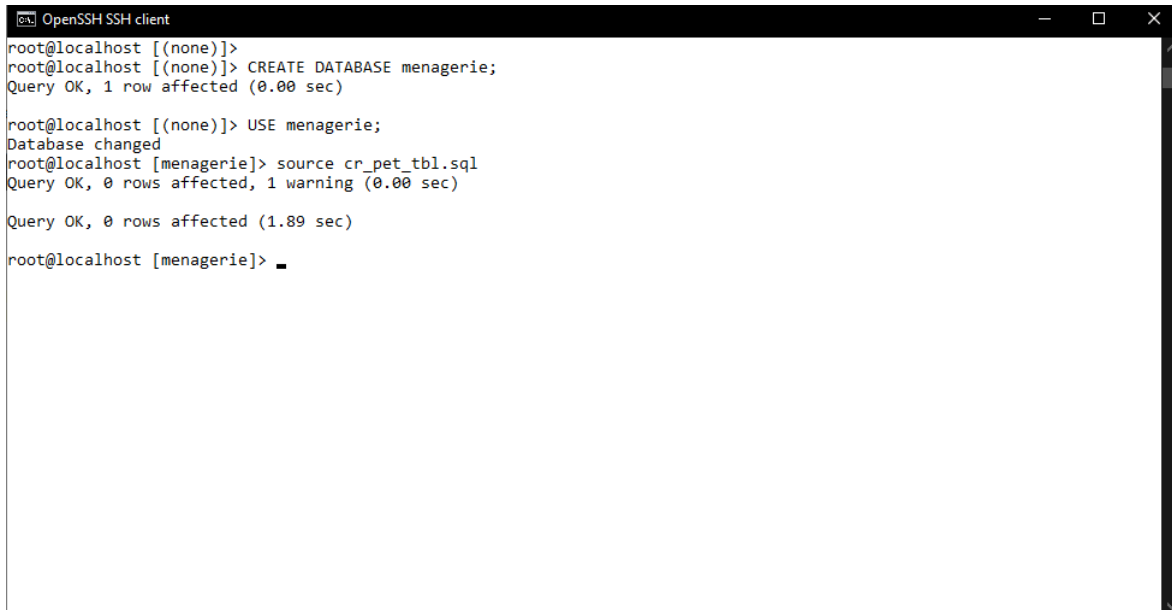
Query OK, 24919 rows affected (0.23 sec)
Records: 24919  Duplicates: 0  Warnings: 0

Query OK, 7671 rows affected (0.06 sec)
Records: 7671  Duplicates: 0  Warnings: 0

+-----+
| data_load_time_diff |
+-----+
| NULL                |
+-----+
1 row in set (0.00 sec)

root@localhost [employees]>
```

En la base de Datos menagerie fue un poco más complejo. Primero había que crear la base de datos manualmente para después importar los archivos .sql y finalmente cargar los datos desde archivos de texto. Para lograr esto se tiene que iniciar sesión de mysql con el comando `mysql --local-infile=1 -u root -p`

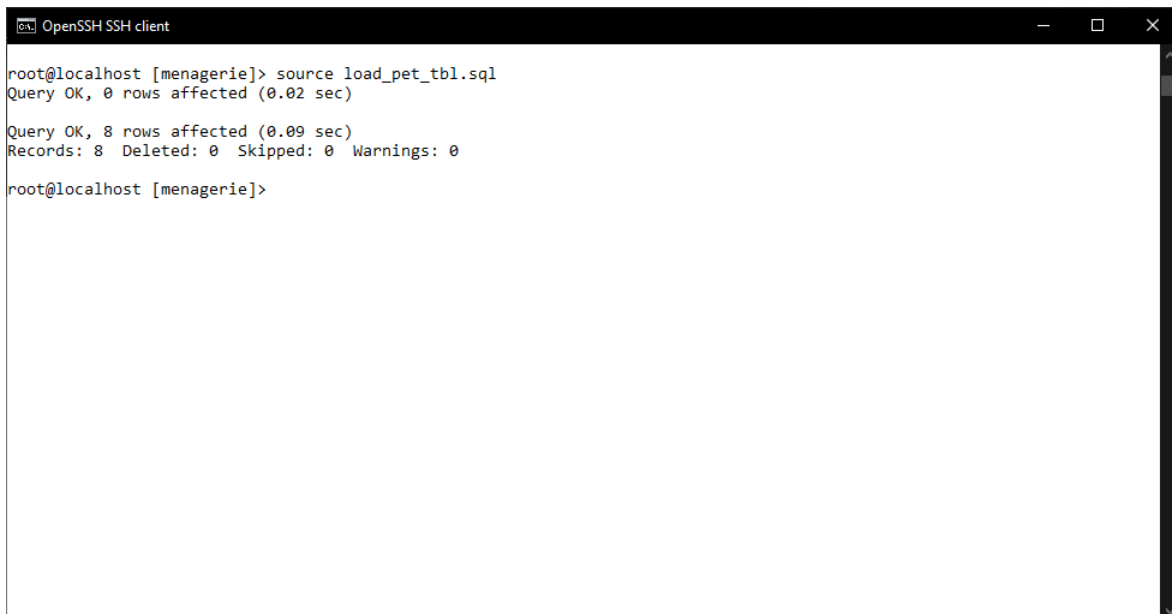


```
OpenSSH SSH client
root@localhost [(none)]>
root@localhost [(none)]> CREATE DATABASE menagerie;
Query OK, 1 row affected (0.00 sec)

root@localhost [(none)]> USE menagerie;
Database changed
root@localhost [menagerie]> source cr_pet_tbl.sql
Query OK, 0 rows affected, 1 warning (0.00 sec)

Query OK, 0 rows affected (1.89 sec)

root@localhost [menagerie]> _
```



```
OpenSSH SSH client
root@localhost [menagerie]> source load_pet_tbl.sql
Query OK, 0 rows affected (0.02 sec)

Query OK, 8 rows affected (0.09 sec)
Records: 8 Deleted: 0 Skipped: 0 Warnings: 0

root@localhost [menagerie]>
```



```
OpenSSH SSH client
root@localhost [menagerie]>
root@localhost [menagerie]>
root@localhost [menagerie]> source cr_event_tbl.sqlql
Query OK, 0 rows affected, 1 warning (0.00 sec)

Query OK, 0 rows affected (0.25 sec)

root@localhost [menagerie]> source ins_puff_rec.sql
Query OK, 1 row affected (0.13 sec)

root@localhost [menagerie]> LOAD DATA LOCAL INFILE 'event.txt' INTO TABLE event;
Query OK, 10 rows affected, 2 warnings (0.03 sec)
Records: 10 Deleted: 0 Skipped: 0 Warnings: 2

root@localhost [menagerie]> ■
```

## Resultados.

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

```
OpenSSH SSH client
root@localhost [(none)]> USE employees;
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 [employees]> 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]> 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]> 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]>
```

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

```
OpenSSH SSH client
+-----+
| Database |
+-----+
| information_schema |
| employees          |
| menagerie          |
| mysql              |
| mysqlslap          |
| performance_schema |
| sakila              |
| usuarios_sistema   |
| world              |
+-----+
3 rows in set (0.00 sec)

root@localhost [menagerie]> _
```

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

```
OpenSSH SSH client

root@localhost [menagerie]> SHOW TABLES;
+-----+
| Tables_in_menagerie |
+-----+
| event                |
| pet                  |
+-----+
2 rows in set (0.00 sec)

root@localhost [menagerie]> _
```

```
OpenSSH SSH client

+-----+
| 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]>
```

```
OpenSSH SSH client

root@localhost [world]> SHOW TABLES;
+-----+
| Tables_in_world |
+-----+
| city             |
| country          |
| countrylanguage  |
+-----+
3 rows in set (0.00 sec)

root@localhost [world]>
```

```
OpenSSH SSH client
root@localhost [employees]> SHOW TABLES;
+-----+
| Tables_in_employees |
+-----+
| current_dept_emp     |
| departments          |
| dept_emp             |
| dept_emp_latest_date |
| dept_manager         |
| employees            |
| salaries             |
| titles               |
+-----+
8 rows in set (0.00 sec)

root@localhost [employees]> _
```

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

```
OpenSSH SSH client
499974 | 1956-09-10 | Shuichi | Piazza | F | 1989-09-16 |
499975 | 1952-11-09 | Masali | Chorvat | M | 1992-01-23 |
499976 | 1963-08-20 | Guozhong | Felder | M | 1988-12-26 |
499977 | 1956-06-05 | Martial | Weisert | F | 1996-09-17 |
499978 | 1960-03-29 | Chiranjit | Kuzuoka | M | 1990-05-24 |
499979 | 1962-10-29 | Prasadram | Waleschkowski | M | 1994-01-04 |
499980 | 1959-06-28 | Gino | Usery | M | 1991-02-11 |
499981 | 1955-01-02 | Yunming | Mitina | F | 1991-03-07 |
499982 | 1954-08-25 | Mohammed | Pleszkun | M | 1986-02-21 |
499983 | 1955-08-29 | Uri | Juneja | F | 1989-08-28 |
499984 | 1959-08-31 | Kaijung | Rodham | M | 1985-09-11 |
499985 | 1964-12-26 | Gila | Lukaszewicz | M | 1997-02-11 |
499986 | 1952-07-22 | Nathan | Ranta | F | 1985-08-11 |
499987 | 1961-09-05 | Rimli | Dusink | F | 1998-09-20 |
499988 | 1962-09-28 | Bangqing | Kleiser | F | 1986-06-06 |
499989 | 1954-05-26 | Keiichiro | Lindqvist | M | 1993-10-28 |
499990 | 1963-11-03 | Khaled | Kohling | M | 1985-10-10 |
499991 | 1962-02-26 | Pohua | Sichman | F | 1989-01-12 |
499992 | 1960-10-12 | Siamak | Salverda | F | 1987-05-10 |
499993 | 1963-06-04 | DeForest | Mullainathan | M | 1997-04-07 |
499994 | 1952-02-26 | Navin | Argence | F | 1990-04-24 |
499995 | 1958-09-24 | Dekang | Lichtner | F | 1993-01-12 |
499996 | 1953-03-07 | Zito | Baaz | M | 1990-09-27 |
499997 | 1961-08-03 | Bernhard | Lenart | M | 1986-04-21 |
499998 | 1956-09-05 | Patricia | Breugel | M | 1993-10-13 |
499999 | 1958-05-01 | Sachin | Tsukuda | M | 1997-11-30 |
+-----+-----+-----+-----+-----+-----+
300024 rows in set (0.59 sec)

root@localhost [employees]> _
```

OpenSSH SSH client

```
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	Zaanstad	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

OpenSSH SSH client

```
root@localhost [sakila]> SELECT * FROM actor;
```

actor_id	first_name	last_name	last_update
1	PENELOPE	GUINESS	2006-02-15 04:34:33
2	NICK	WAHLBERG	2006-02-15 04:34:33
3	ED	CHASE	2006-02-15 04:34:33
4	JENNIFER	DAVIS	2006-02-15 04:34:33
5	JOHNNY	LOLLOBRIGIDA	2006-02-15 04:34:33
6	BETTE	NICHOLSON	2006-02-15 04:34:33
7	GRACE	MOSTEL	2006-02-15 04:34:33
8	MATTHEW	JOHANSSON	2006-02-15 04:34:33
9	JOE	SWANK	2006-02-15 04:34:33
10	CHRISTIAN	GABLE	2006-02-15 04:34:33
11	ZERO	CAGE	2006-02-15 04:34:33
12	KARL	BERRY	2006-02-15 04:34:33
13	UMA	WOOD	2006-02-15 04:34:33
14	VIVIEN	BERGEN	2006-02-15 04:34:33
15	CUBA	OLIVIER	2006-02-15 04:34:33
16	FRED	COSTNER	2006-02-15 04:34:33
17	HELEN	VOIGHT	2006-02-15 04:34:33
18	DAN	TORN	2006-02-15 04:34:33
19	BOB	FAWCETT	2006-02-15 04:34:33
20	LUCILLE	TRACY	2006-02-15 04:34:33
21	KIRSTEN	PALTROW	2006-02-15 04:34:33
22	ELVIS	MARX	2006-02-15 04:34:33
23	SANDRA	KILMER	2006-02-15 04:34:33
24	CAMERON	STREEP	2006-02-15 04:34:33
25	KEVIN	BLOOM	2006-02-15 04:34:33
26	RIP	CRAWFORD	2006-02-15 04:34:33

```
OpenSSH SSH client
Database changed
^oot@localhost [menagerie]> SHOW TABLES;
+-----+
| Tables_in_menagerie |
+-----+
| event                |
| pet                  |
+-----+
2 rows in set (0.00 sec)

^oot@localhost [menagerie]>
^oot@localhost [menagerie]>
^oot@localhost [menagerie]>
^oot@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       |
| Puffball | Diane | hamster  | f   | 1999-03-30 | NULL       |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)

^oot@localhost [menagerie]>
```