COMP-306 HOMEWORK-2

```
The default interactive shell is now zsh.

To update your account to use zsh, please run `chsh -s /bin/zsh`.

For more details, please visit https://support.apple.com/kb/HT208050.

barissss-mbp:~ barissss$ mysql -u root -p

Enter password:

[Welcome to the MySQL monitor. Commands end with; or \g. [Your MySQL connection id is 11

Server version: 8.0.28 MySQL Community Server - GPL

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

mysql>
```

Connecting to the mysql client in the Macosx terminal

Q1:

In order to import the "world.sql file" inside the mysql client, I have used the SOURCE command with the absolute path of the "world.sql" file right after the command.

SOURCE file_path

The file path I used here is: /Users/barissss/Desktop/world.sql

```
mysql> 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
mysql> ■
```

The SQL command for using the database called "world"

Screenshot taken from terminal after I run SHOW TABLES command inside the mysql

Q2:

Part-A:

mysql> SELECT Name, GNP

-> FROM country

-> WHERE Continent='Europe' AND indepYear>1930;

Name	GNP
Bosnia and Herzegovina	2841.00
Belarus	13714.00
Czech Republic	55017.00
Germany	2133367.00
Estonia	5328.00
Croatia	20208.00
Iceland	8255.00
Lithuania	10692.00
Latvia	6398.00
Moldova	1579.00
Macedonia	1694.00
Malta	3512.00
Russian Federation	276608.00
Slovakia	20594.00
Slovenia	19756.00
Ukraine	42168.00
+	++

16 rows in set (0,01 sec)

The output of the SELECT-FROM-WHERE command that I have written for the part-A of Q2 (Along with the command itself).

Part-B:

[mysql> SELECT ct.CountryCode,cnt.Name,ct.Name,ct.Population

-> FROM city ct, country cnt

-> WHERE ct.CountryCode=cnt.Code AND cnt.LifeExpectancy>75 AND cnt.Population<1000000;

CountryCode	Name	Name	Population
ABW	Aruba	Oranjestad	29034
AIA	Anguilla	South Hill	961
AIA	Anguilla	The Valley	595
AND	Andorra	Andorra la Vella	21189
ASM	American Samoa	Tafuna	5200
ASM	American Samoa	Fagatogo	2323
BMU	Bermuda	Saint George	1800
BMU	Bermuda	Hamilton	1200
CYM	Cayman Islands	George Town	19600
CYP	Cyprus	Nicosia	195000
CYP	Cyprus	Limassol	154400
FRO	Faroe Islands	Tórshavn	14542
GIB	Gibraltar	Gibraltar	27025
GLP	Guadeloupe	Les Abymes	62947
GLP	Guadeloupe	Basse-Terre	12433
GUF	French Guiana	Cayenne	50699
GUM	Guam	Tamuning	9500
GUM	Guam	Agaña	1139
ISL	Iceland	Reykjavík	109184
LIE	Liechtenstein	Schaan	5346
LIE	Liechtenstein	Vaduz	5043
LUX	Luxembourg	Luxembourg [Luxemburg/Lëtzebuerg]	80700
MAC	Macao	Macao	437500
MCO	Monaco	Monte-Carlo	13154
MCO	Monaco	Monaco-Ville	1234
MLT	Malta	Birkirkara	21445
MLT	Malta	Valletta	7073
MNP	Northern Mariana Islands	Garapan	9200
MSR	Montserrat	Plymouth	2000
MTQ	Martinique	Fort-de-France	94050
SHN	Saint Helena	Jamestown	1500
SMR	San Marino	Serravalle	4802
SMR	San Marino	San Marino	2294
SPM	Saint Pierre and Miquelon	Saint-Pierre	5808
VGB	Virgin Islands, British	Road Town	8000
VIR	Virgin Islands, U.S.	Charlotte Amalie	13000

36 rows in set (0,00 sec)

The output of the SELECT-FROM-WHERE command that I have written for the part-B of Q2 (Along with the sql command itself).

Part-C:

The output of the SELECT-FROM-WHERE command that I have written for the part-C of Q2 (along with the sql command itself)

Part-D:

```
[mysql> SELECT ct.CountryCode,ct.Name
    -> FROM city ct, countrylanguage clan, country cnt
    -> WHERE clan.CountryCode=cnt.Code AND ct.CountryCode=cnt.Code AND ct.Population<90000 AND clan.Percentage>1.0 AND clan.Language='German';
[| CountryCode | Name
  CAN
                Kelowna
  CAN
                Barrie
 DEU
                Velbert
  DEU
                Esslingen am Neckar
 LIE
                Schaan
  LIE
 LUX
                Luxembourg [Luxemburg/Lëtzebuerg]
7 rows in set (0,00 sec)
```

The SELECT-FROM-WHERE command that I have written for the part-D of Q2 & the output of this command.

Q3:

```
[mysql> create table students(
[     -> name varchar(55) not null,
[     -> university varchar(60) not null,
[     -> s_id varchar(25) unique,
[     -> primary key(s_id)
[     -> );
Query OK, 0 rows affected (0,03 sec)
```

SQL Command I have used for creating a table named 'students' and also the output of the command

SQL Command I have used for displaying tables after I have created the table named 'students' and also the output of the 'show tables' command

```
mysql> INSERT INTO students(name, university,s_id)
    -> VALUES('Barış Kaplan','KU',1);
Query OK, 1 row affected (0,02 sec)
```

SQL command I have used to enter myself as a record to the students table and also the output of the command

```
[mysql> INSERT INTO students(name, university, s_id)
    -> VALUES('John Stark', 'KU', 2);
Query OK, 1 row affected (0,00 sec)
[mysql> INSERT INTO students(name, university, s_id)
    -> VALUES('Yasemin A','SU',3);
Query OK, 1 row affected (0,00 sec)
[mysql> INSERT INTO students(name, university, s_id)
    -> VALUES('Can Y', 'BOUN', 4);
Query OK, 1 row affected (0,00 sec)
[mysql> INSERT INTO students(name,university,s_id)
    -> VALUES('Efe G','SU',5);
Query OK, 1 row affected (0,00 sec)
[mysql> INSERT INTO students(name,university,s_id)
    -> VALUES('Armagan T', 'SU', 6);
Query OK, 1 row affected (0,00 sec)
[mysql> INSERT INTO students(name, university, s_id)
    -> VALUES('Cem K','KU',7);
Query OK, 1 row affected (0,00 sec)
[mysql> INSERT INTO students(name, university, s_id)
    -> VALUES('Yang W', 'KU', 8);
Query OK, 1 row affected (0,00 sec)
[mysql> INSERT INTO students(name,university,s_id)
-> VALUES('Uras C','BOUN',9);
Query OK, 1 row affected (0,00 sec)
```

Addition of the other provided records to the table called students & the outputs of the additions of the records

```
[mysql> UPDATE students
[ -> SET university='KU'
    -> WHERE s_id=5;
Query OK, 1 row affected (0,04 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

SQL Command I have used for updating the university of 'Efe G' to 'KU', AND the output of this SQL command

```
[mysql> DELETE FROM students
[     -> WHERE name='John Stark';
Query OK, 1 row affected (0,00 sec)
```

SQL Command I have used for deleting the student which has the name 'John Stark' and the output of this command

Q4:

Part-A:

SQL command I have used for creating a table named 'visit', and the output of this SQL command

mysql> 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

SQL command for changing the Database I use & also the output of this SQL command

Part-B:

```
mysql> SET GLOBAL local_infile=1;
Query OK, 0 rows affected (0,00 sec)

mysql> exit
Bye
barissss-MacBook-Pro:~ barissss$ mysql --local-infile=1 -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 48
Server version: 8.0.28 MySQL Community Server - GPL

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

Preparation to load data
```

```
[mysql> load data local infile "/Users/barissss/Desktop/visit.txt"
[ -> into table visit;
Query OK, 20 rows affected (0,01 sec)
Records: 20 Deleted: 0 Skipped: 0 Warnings: 0
```

SQL Command for loading the data inside the "visit.txt" file to the table called "visit" & also the output of this SQL command

Part-C:

The SQL command I have used for the Part-C of Q4 & The output of this SQL command

Part-F:

The SQL command I have used for Part-F of Q4 & The output of this SQL command

Part-G:

mysql> SELECT DISTINCT cnt.Continent

- -> FROM country cnt
- -> WHERE cnt.Continent NOT IN (SELECT DISTINCT cnt.Continent FROM students std,country cnt,visit vs,city ct WHERE vs.s_id=std.s_id AND vs.ID=ct.ID AND ct.CountryCode=cnt.Code);

3 rows in set (0,00 sec)

The SQL command I have used for Part-G of Q4 & The output of this SQL command

Part-D:

mysql> SELECT std.s_id,std.name

- -> FROM students std
- -> WHERE std.s_id NOT IN (SELECT std.s_id FROM students std,visit vs,city ct WHERE vs.ID=ct.ID AND vs.s_id=std.s_id AND vs.s_id=std.s_id AND ct.Name='Paris') AND std.s_id IN (SELECT std.s_id FROM students std,visit vs,city ct WHERE vs.ID=ct.ID AND vs.s_id=std.s_id AND ct.Name='Amsterdam');



1 row in set (0,02 sec)

mysql>

The SQL Command I used in Q4 Part-D, and the output of this SQL command

The sql command I used in part-D of Question-4:

SELECT std.s_id,std.name
FROM students std
WHERE std.s_id NOT IN (SELECT std.s_id FROM students std,visit
vs,city ct WHERE vs.ID=ct.ID AND vs.s_id=std.s_id AND
ct.Name='Paris') AND std.s_id IN (SELECT std.s_id FROM students
std,visit vs,city ct WHERE vs.ID=ct.ID AND vs.s_id=std.s_id AND
ct.Name='Amsterdam');

Part-E:

mysql> SELECT std.s_id,std.name

-> FROM students std
-> WHERE std.s_id NOT IN (SELECT std.s_id FROM students std,visit vs,country cnt,city ct WHERE vs.s_id=std.s_id AND vs.ID=ct.ID AND cnt.name='Russian Federation' AND ct.Co|
untryCode=cnt.Code);

5 rows in set (0.00 sec)

SELECT std.s_id,std.name

The SQL Command I used in Part-E of Question4, and also the output of this SQL command

The sql command I used in part-E of Question-4:

FROM students std
WHERE std.s_id NOT IN (SELECT std.s_id FROM students std,visit
vs,country cnt,city ct WHERE vs.s_id=std.s_id AND vs.ID=ct.ID AND
cnt.name='Russian Federation' AND ct.CountryCode=cnt.Code);

Q5:

Initially, we should exit from the MySQL client. You can see the command to exit MySQL client in the below figure.

[mysql> exit Bye

SQL command to exit the MySQL Client & the output of this command

For exporting the world database to the "world-export.sql" file, I have used the following command:

mysqldump -u root -p world > /Users/barissss/Desktop/world-export.sql

The screenshot after the execution of the above command:

barissss-MacBook-Pro:~ barissss\$ mysqldump -u root -p world > /Users/barissss/Desktop/world-export.sql Enter password: barissss-MacBook-Pro:~ barissss\$

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HOMEWORK #: HW-2