

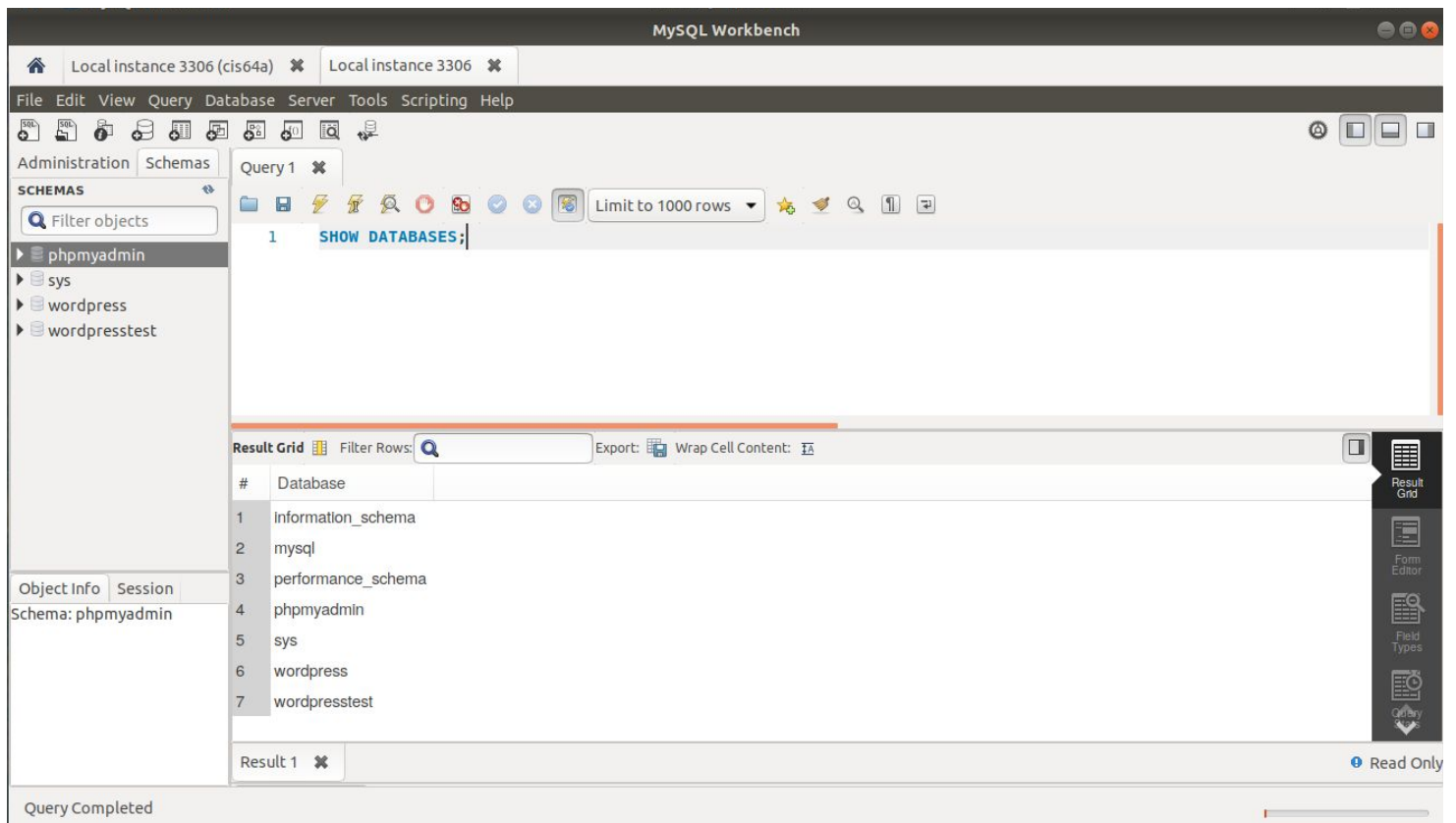
# CIS64A Spring 2020

## Homework 3

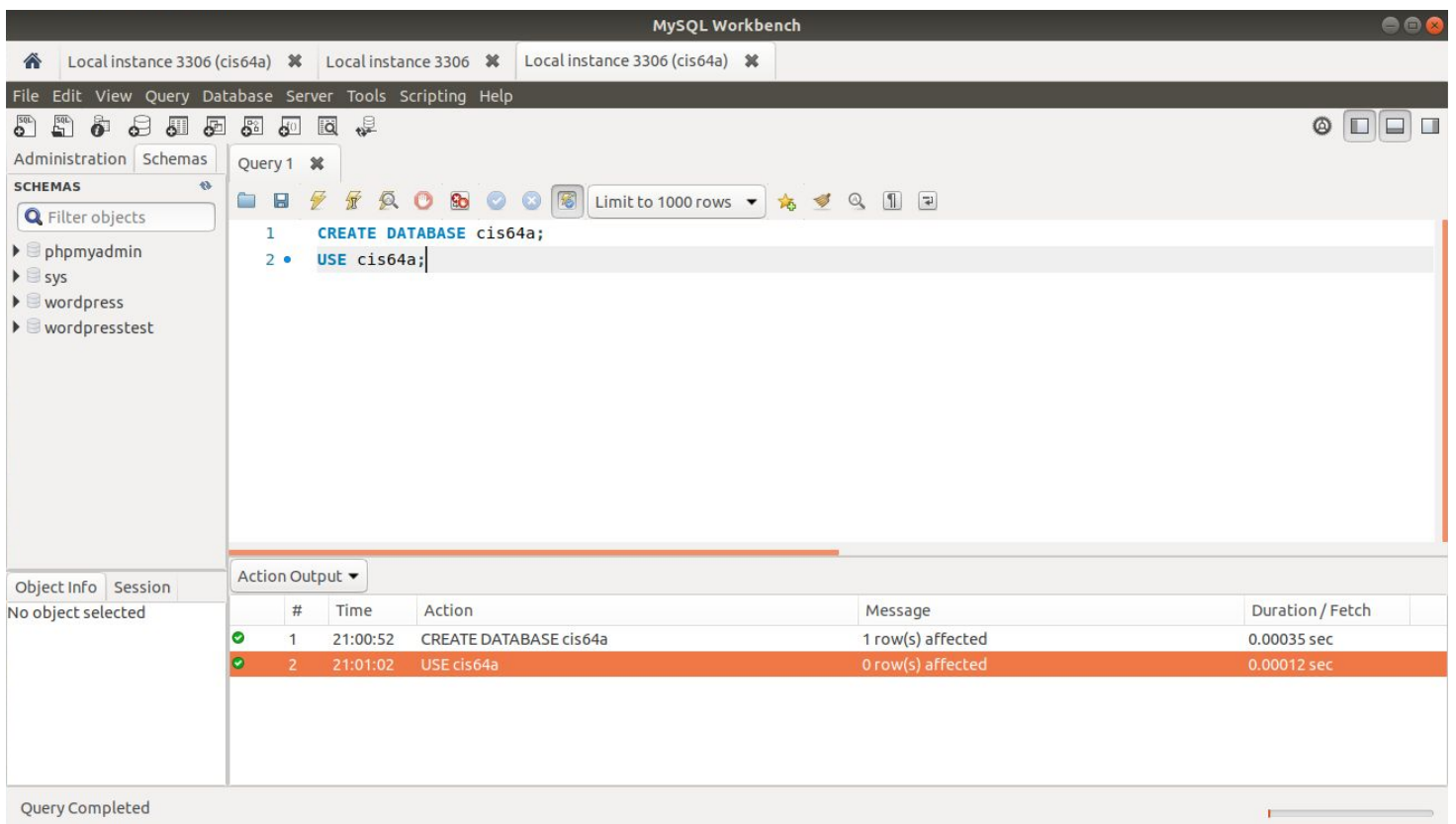
Joshua Saunders

3.Type the command "SHOW DATABASES;" to list all databases in your DBMS.

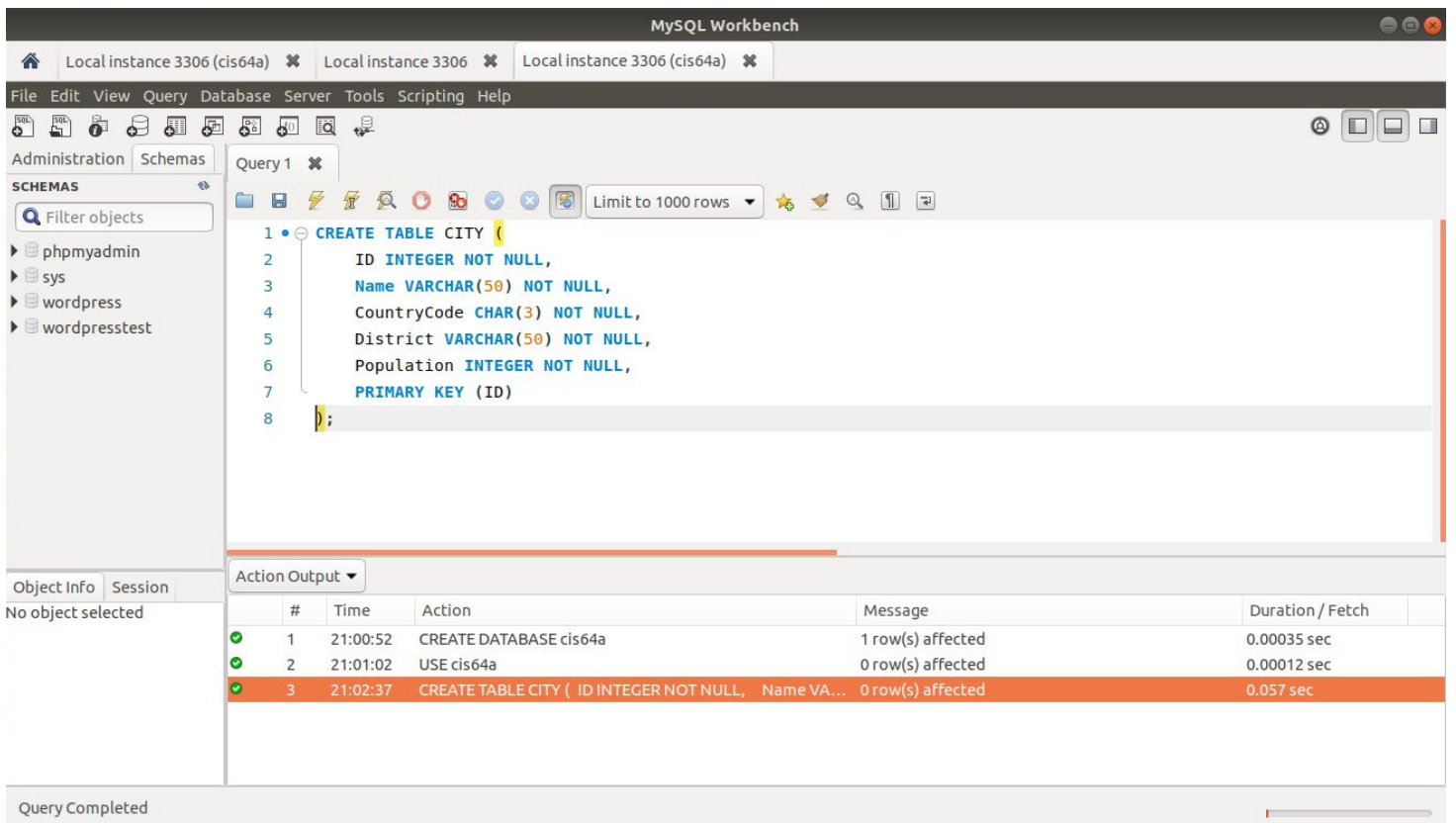
Press either thunderbolt icon on top of the query panel to execute one current command or every commands in the editor



4. Run these 2 commands to create a new database then use it for all the later commands.



5. Type the SQL command to create a table named CITY in your newly created database cis64a:



6. Download this [SQL script](#) file to your computer. Then run the script file to populate all the row data for your CITY table

MySQL Workbench

Local instance 3306 (cis64a) Local instance 3306 Local instance 3306 (cis64a)

File Edit View Query Database Server Tools Scripting Help

Administration Schemas

SCHEMAS

Filter objects

phpmyadmin sys wordpress wordpress

Query 1 insert\_city

Limit to 1000 rows

```

1 • INSERT INTO CITY VALUES (1, 'Kabul', 'AFG', 'Kabol', 1780000);
2 • INSERT INTO CITY VALUES (2, 'Qandahar', 'AFG', 'Qandahar', 237500);
3 • INSERT INTO CITY VALUES (3, 'Herat', 'AFG', 'Herat', 186800);
4 • INSERT INTO CITY VALUES (4, 'Mazar-e-Sharif', 'AFG', 'Balkh', 127800);
5 • INSERT INTO CITY VALUES (5, 'Amsterdam', 'NLD', 'Noord-Holland', 731200);
6 • INSERT INTO CITY VALUES (6, 'Rotterdam', 'NLD', 'Zuid-Holland', 593321);
7 • INSERT INTO CITY VALUES (7, 'Haag', 'NLD', 'Zuid-Holland', 440900);
8 • INSERT INTO CITY VALUES (8, 'Utrecht', 'NLD', 'Utrecht', 234323);
9 • INSERT INTO CITY VALUES (9, 'Eindhoven', 'NLD', 'Noord-Brabant', 201843);
10 • INSERT INTO CITY VALUES (10, 'Tilburg', 'NLD', 'Noord-Brabant', 193238);
11 • INSERT INTO CITY VALUES (11, 'Groningen', 'NLD', 'Groningen', 172701);
12 • INSERT INTO CITY VALUES (12, 'Breda', 'NLD', 'Noord-Brabant', 160398);

```

Object Info Session

No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 4075	22:11:56	INSERT INTO CITY VALUES (4074, 'Gaza', 'PSE', 'Gaza', 353632)	1 row(s) affected	0.0080 sec
✓ 4076	22:11:56	INSERT INTO CITY VALUES (4075, 'Khan Yunis', 'PSE', 'Khan Yunis', 123175)	1 row(s) affected	0.0079 sec
✓ 4077	22:11:56	INSERT INTO CITY VALUES (4076, 'Hebron', 'PSE', 'Hebron', 119401)	1 row(s) affected	0.0086 sec
✓ 4078	22:11:56	INSERT INTO CITY VALUES (4077, 'Jabaliya', 'PSE', 'North Gaza', 113901)	1 row(s) affected	0.0073 sec
✓ 4079	22:11:56	INSERT INTO CITY VALUES (4078, 'Nabulus', 'PSE', 'Nabulus', 100231)	1 row(s) affected	0.0079 sec
✓ 4080	22:11:56	INSERT INTO CITY VALUES (4079, 'Rafah', 'PSE', 'Rafah', 92020)	1 row(s) affected	0.0079 sec

Query Completed

7. Write the SQL SELECT command with function **COUNT()** to find out how many rows are in your CITY table. Do not use "SELECT \*" with the asterisk because it is very inefficient compared to the count() function.

```

SELECT COUNT(ID)
FROM CITY;

```

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar shows the 'SCHEMAS' panel with a search bar and a list of schemas: phpmyadmin, sys, wordpress, and wordpressesst. The main query editor shows a query named 'Query 1' with the following SQL:

```
1 • SELECT COUNT(ID)
2 FROM CITY;
```

The query is executed, and the result is displayed in the 'Result Grid' panel. The result is a single row with the value 4079 for the COUNT(ID) column. The 'Action Output' panel shows the execution details:

#	Time	Action	Message	Duration / Fetch
1	22:07:44	SELECT COUNT(ID) FROM CITY LIMIT 0, 1000	1 row(s) returned	0.0021 sec / 0.0000...

The status bar at the bottom indicates 'Query Completed'.

### [MySQL count function reference](#)

8. Write an SQL SELECT statement to get all cities of the country whose country code is 'PHL'.  
Copy the SQL command you use and insert it into the answer document.

```
SELECT ID, Name, CountryCode, District, Population
FROM CITY
WHERE CountryCode = 'PHL';
```

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL statement:

```

1 • SELECT ID, Name, CountryCode, District, Population
2 FROM CITY
3 WHERE CountryCode = 'PHL';

```

The results are displayed in the Result Grid, showing 13 rows of data for cities in the Philippines. The columns are #, ID, Name, CountryCode, District, and Population.

#	ID	Name	CountryCode	District	Population
1	765	Quezon	PHL	National Capital Reg	2173831
2	766	Manila	PHL	National Capital Reg	1581082
3	767	Kalookan	PHL	National Capital Reg	1177604
4	768	Davao	PHL	Southern Mindanao	1147116
5	769	Cebu	PHL	Central Visayas	718821
6	770	Zamboanga	PHL	Western Mindanao	601794
7	771	Pasig	PHL	National Capital Reg	505058
8	772	Valenzuela	PHL	National Capital Reg	485433
9	773	Las Piñas	PHL	National Capital Reg	472780

The Action Output pane at the bottom shows the execution details:

#	Time	Action	Message	Duration / Fetch
2	13:48:30	SELECT ID, Name, CountryCode, District, Population FROM CITY WHERE	136 row(s) returned	0.0019 sec / 0.0001

Query Completed

9. Write an SQL SELECT statement to get all cities whose population is greater than 8 millions.

Copy the SQL command you use and insert it into the answer document.

```

SELECT ID, Name, CountryCode, District, Population
FROM CITY
WHERE Population > 8000000;

```

Capture output screenshot and insert in your answer document

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar shows the 'SCHEMAS' panel with a search filter and a list of databases: phpmyadmin, sys, wordpress, and wordpressesst. The main query editor displays a SQL query: `SELECT ID, Name, CountryCode, District, Population FROM CITY WHERE Population > 8000000;`. The 'Result Grid' panel shows the results of the query, with columns: #, ID, Name, CountryCode, District, and Population. The results are as follows:

#	ID	Name	CountryCode	District	Population
1	206	SÃ£o Paulo	BRA	SÃ£o Paulo	9968485
2	939	Jakarta	IDN	Jakarta Raya	9604900
3	1024	Mumbai (Bombay)	IND	Maharashtra	10500000
4	1890	Shanghai	CHN	Shanghai	9696300
5	2331	Seoul	KOR	Seoul	9981619

The bottom panel shows the 'Action Output' with a message: 'SELECT ID, Name, CountryCode, District, Population FROM CITY WHERE Population > 8000000; 10 row(s) returned. 0.0020 sec / 0.0000'. The status bar at the bottom indicates 'Query Completed'.

[MySQL SELECT tutorial link](#)

10. Write an SQL SELECT statement to get all cities whose population is in the range of 5 million to 10 millions inclusive.

Copy the SQL command you use into the answer document.

```
SELECT ID, Name, CountryCode, District, Population
FROM CITY
WHERE Population BETWEEN 5000000 AND 10000000;
```

Capture output screenshot and insert in your answer document



MySQL Workbench

Local instance 3306 (cis64a) Local instance 3306 Local instance 3306 (cis64a)

File Edit View Query Database Server Tools Scripting Help

Administration Schemas

SCHEMAS

Filter objects

phpmyadmin sys wordpress wordpresstest

Query 1 insert\_city

Limit to 1000 rows

1 • SELECT ID, Name, CountryCode, District, Population

2 FROM CITY

3 WHERE Population BETWEEN 5000000 AND 10000000;

4

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content: IA

#	ID	Name	CountryCode	District	Population
1	206	SÃ£o Paulo	BRA	SÃ£o Paulo	9968485
2	207	Rio de Janeiro	BRA	Rio de Janeiro	5598953
3	456	London	GBR	England	7285000
4	608	Cairo	EGY	Kairo	6789479
5	939	Jakarta	IDN	Jakarta Raya	9604900

CITY 16

Apply Revert

Action Output

#	Time	Action	Message	Duration / Fetch
6	14:06:23	SELECT ID, Name, CountryCode, District, Population FROM CITY WHERE	23 row(s) returned	0.0018 sec / 0.0000

Query Completed