

CSCI3030U: Databases Lab 8 and 9

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This was the database used:

```
Lab667=# \dt
```

Schema	Name	Type	Owner
public	actor_work	table	postgres
public	actors	table	postgres
public	awards	table	postgres
public	cinemas	table	postgres
public	director_work	table	postgres
public	directors	table	postgres
public	genres	table	postgres
public	locations	table	postgres
public	movie_awards	table	postgres
public	movie_genres	table	postgres
public	movies	table	postgres
public	showtimes	table	postgres
public	universities	table	postgres
public	university_departments	table	postgres

(14 rows)

2.

Inserting tuples into DB without variables (see part2_noParamInsert.cpp):

```
syarnaq@pop-os:~/Documents/Arham/School/UOIT/3rd_Year/databases/Lab869$ g++ part2_noParamInsert.cpp -o output2 -lpqxx -lpq
syarnaq@pop-os:~/Documents/Arham/School/UOIT/3rd_Year/databases/Lab869$ ./output2
Opened database successfully: Lab667
All queries in transaction executed successfully!
syarnaq@pop-os:~/Documents/Arham/School/UOIT/3rd_Year/databases/Lab869$
```

3.

Inserting tuples into DB passing variables as arguments to parameters (see part3_insertWithParams.cpp):

```
syarnaq@pop-os:~/Documents/Arham/School/UOIT/3rd_Year/databases/Lab869$ g++ part3_insertWithParams.cpp -o output3 -lpqxx -lpq
syarnaq@pop-os:~/Documents/Arham/School/UOIT/3rd_Year/databases/Lab869$ ./output3
Opened database successfully: Lab667
All queries in transaction executed successfully!
```

4.

Queries 6a, 6b, and 6d were all executed with parameters passed as variables. Query 6f was executed without variables (see part4_queries.cpp):

```
syarnaq@pop-os:~/Documents/Arham/School/UOIT/3rd_Year/databases/Lab869$ g++ part4_queries.cpp -o output4 -lpqxx -lpq
syarnaq@pop-os:~/Documents/Arham/School/UOIT/3rd_Year/databases/Lab869$ ./output4
Opened database successfully: Lab667

Printing results of query 6 a:
Attribute: firstname, Value: John
Attribute: surname, Value: Doe
Attribute: firstname, Value: Jane
Attribute: surname, Value: Smith
Attribute: firstname, Value: Jesse
Attribute: surname, Value: Lee

Printing results of query 6 b:
Attribute: title, Value: Movie A

Printing results of query 6 d:
Attribute: firstname, Value: John
Attribute: surname, Value: Doe

Printing results of query 6 f:
Attribute: firstname, Value: Anna
Attribute: firstname, Value: Nina
Attribute: firstname, Value: Anna
Attribute: firstname, Value: Ella
Attribute: firstname, Value: Ella
Attribute: firstname, Value: Nina

All queries in transaction executed successfully!
```