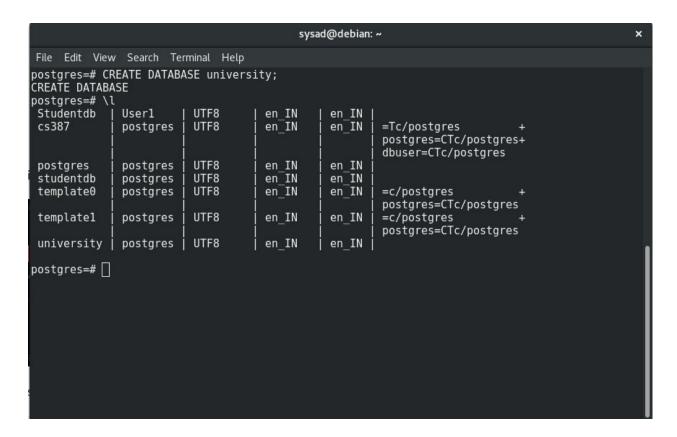
Lab 3 Handout

1. Create University database using the create database statement (using psql also or pgAdmin)



2. Connect to this database using \c command in psql

```
sysad@debian: ~ x

File Edit View Search Terminal Help
postgres=# \c university
You are now connected to database "university" as user "postgres".
university=# []
```

3. Set search path to university schema as in Set sesrch_path to university, public.

```
sysad@debian: ~ ×

File Edit View Search Terminal Help
university=# set search_path=university,public;
SET
university=# []
```

Check that you are currently in this by executing select current_schema statement

```
sysad@debian: ~ x

File Edit View Search Terminal Help
university=# show search_path;
university, public
university=# []
```

- 4. The above will not require you to qualify your table names with schema, since postgresql will look for the tables referred by you in the schemas mentioned in your search path
- 5. Take DDL_drop.sql file from moodle and also the SmallRelationsInsertFile.sql file and execute them using \I filename

These will create your tables in university database and also load some data in them.

```
sysad@debian: ~
 File Edit View Search Terminal Help
university=# \i /home/sysad/POSTGRSQL/DDL drop.sql
DROP TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE
          TABLE
CREATE
          TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
university=# 🗌
```

```
sysad@debian: ~
                                                                                    ×
File Edit View Search Terminal Help
university=# \i /home/sysad/POSTGRSQL/smallRelationsInsertFile.sql
DELETE 0
DELETE 0
DELETE 0
DELETE 0
DELETE
       0
DELETE 0
DELETE 0
DELETE 0
DELETE 0
DELETE 0
INSERT
       0
INSERT 0
INSERT 0
INSERT 0
         1
INSERT
       0
INSERT 0
INSERT 0
INSERT
       0
INSERT 0
INSERT 0
         1
INSERT 0 1
INSERT 0
```

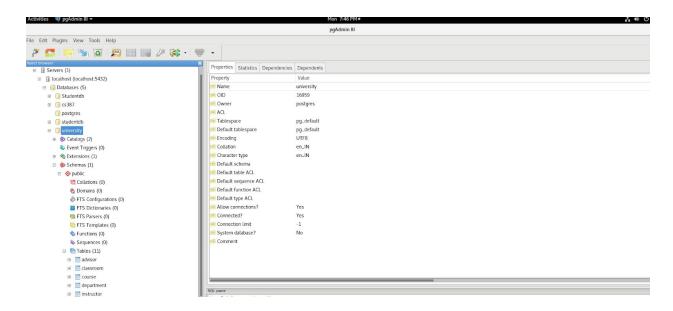
6. Become familiar with data, run select * on various tables

sysad@debian: ~ ×										
File Edit Vie	w Search	Terminal H	elp							
university=# \d										
Schema	ist of rel. Name	ations Type	Owner							
public cl public co public de public in public pr public se public st public ta	visor assroom burse epartment estructor ection tudent eaches me_slot	table table table table table table table table table table	postgres							

					sysad@debian: ~	×			
File	e Edit	View Searc	h Terminal F	Help					
	university=# select * from student;								
i	d	name	dept_name	tot_cred		- 1			
	128	Zhang	Comp. Sci.			- 1			
	345 991	Shankar Brandt	Comp. Sci. History) 32 80		- 1			
23	121	Chavez	Finance	110		- 1			
	553 678	Peltier Levy	Physics Physics	56 46		1			
54	321	Williams	Comp. Sci.	54		- 1			
	739 557	Sanchez Snow	Music Physics	38 0		- 1			
76	543	Brown	Comp. Sci.	58		- 1			
	653 765	Aoi Bourikas	Elec. Eng. Elec. Eng.			- 1			
98	988	Tanaka	Biology	120		- 1			
(13	rows)				- 1			
uni	versi	ty=#				- 1			
						_			

```
sysad@debian: ~
                                                                                                                                   ×
File Edit View Search Terminal Help
university=# select * from course;
 course id |
                            title
                                                     dept name
                                                                   | credits
                Intro. to Biology
                                                     Biology
                                                                             4
 BIO-101
 BIO-301
                Genetics
                                                     Biology
                Computational Biology
                                                    Biology
Comp. Sci.
Comp. Sci.
 BIO-399
CS-101
CS-190
                Intro. to Computer Science
                Game Design
CS-315
                Robotics
                                                     Comp. Sci.
                                                     Comp. Sci.
Comp. Sci.
 CS-319
                Image Processing
                Database System Concepts
Intro. to Digital Systems
CS-347
                                                     Elec. Eng.
 EE-181
FIN-201
HIS-351
               Investment Banking
World History
Music Video Production
                                                     Finance
                                                     History
 MU-199
                                                     Music
PHY-101
(13 rows)
                                                                             4
                Physical Principles
                                                     Physics
university=#
```

7. You will have pgAdmin also installed when you installed postgresql. Start pgAdmin, connect to localhost DB, see all tables and data in them.



8. You may use pgAdmin to drop tables that we created above, and re-create the tables again by running those same .sql files in pgAdmin in its query window.

