

## Lab 3 Worksheet

**Important: try and complete as many of the following up to 4pm. At 4pm, you will be given a quiz that you will upload after trying it out.**

1. Download the lab3 handout which describes creating the University database schema and also inserting some data into your tables. You are also given two .sql files for this purpose. Check and browse the data using sql through psql.

2. Install pgAdmin tool for interacting with postgresql using a GUI interface. Spend some time to learn various features of pgAdmin. See the hand out.

3. You now have a small database you can query through pgAdmin using SQL. Try out the following queries. In these queries, change the query data if your query returns empty answers.

- list instructors who earn less than 100000

- list departments by the count of their no of students and no of instructors in asc order of departments

- list students who have taken courses from computer science as well as from Music departments in the same semester/year. Will there be duplicates in your query answer ?

- list students who have FF grades in courses of their own departments

- list students who have at least one AA in every semester they have studied here

- find courses which run in rooms belonging to the buildings other than the building of its department (e.g., a CS course runs in non-CS building)

4. Think of many interesting queries and try them out after the lab.