

CS2102 Database Systems

Announcements

Assignments

- Checking your solutions

- Test locally first until you are *(reasonably)* sure they are correct
- Check online after to minimize service disruption
- Most queries should return results almost immediately *(only 1-2 queries might take 3-5s)*
- Queries running longer than 10s are probably not correct *(we also have timeout for this)*

- Submissions

- Make sure your completed template is correct by trying to import it locally into PostgreSQL *(in the template, change “DROP VIEW student ...” with “DROP VIEW IF EXISTS student ...” to avoid error)*
- Errata in Q5, the second parameter should be named `domestic_connections_count`
- Don't forget to add your student ID and NUSNET ID to the student view in the template
- Deadline is 16 Oct 2021 at 11:59pm
 - Submit to your *individual* submission folder

Projects

- Checkpoints

- The proposed ER model is already uploaded with explanations
- You should start on the creation of relational schema
- A generic template:
 - `DROP TABLE IF EXISTS ... CASCADE;` *-- to clear the database first*
 - `CREATE TABLE ...;` *-- then create the table*
 - `CREATE OR REPLACE FUNCTIONS ...;` *-- followed by trigger functions*
 - `CREATE TRIGGERS ...;` *-- used by some triggers*
 - `INSERT INTO ... VALUES ...;` *-- lastly, populate the tables*
 - *This may be semi-automated using other programming/scripting language*
 - *Generate all the possible good values using a nice modeling and/or randomization*
- **MOST** of basic functionalities can already be solved after relational schema is created
 - May want to create test cases first using the randomly populated tables