CMPT 354 - Final Project Report

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Backup Download Link:

https://vault.sfu.ca/index.php/s/bRWzvHWQUIIiHDE

Intro

We have created a command-line interface (CLI) using node.js in order to implement our SQL interface. The assertions have been included within the "commands" folder.

Getting Started

1. Insert Tables & Data

Insert the tables and data into your DB using the DDL and insert commands provided.

2. Setup the CLI

After setting up the database, we need to configure the CLI to connect to your DB.

Go into the root source folder and create a file called `.env`. Copy and paste the code below, replacing each value with the values of your Postgres database.

```
// .env
USER = your_username
PASS = your_password
HOST = your_host
PORT = your_port
DB = your_db_name

SSL = true
```

Once the DB's been connected, simply install the required dependencies and run the CLI by entering the commands below in your command line (assuming Node.js is installed):

```
# To install dependencies
npm install

# To run the CLI
npm run cli
```

Note: Your command line should be pointing to the source folder for the commands to work.

Follow the instructions in the CLI for to execute the queries in Task 2.

For whatever reason, if you need to force close the CLI you can do so by pressing `Ctrl-C`

Assumptions

For Task 2

Q1

- "competitions" = calls
- A submitted proposal includes "submitted", "awarded", and "denied" proposals

Q3

- The user will only pick one area

- if a NULL value is included, the average discrepancy will also be NULL

- a conflict is defined as the principle investigator and the reviewer of a proposal both appearing in the same row in the conflicts table

- "room" = meeting
- If a user-entered date is available (AKA, does not conflict with other meetings) then a new meeting is created automatically (given that all 3 competitions are valid)
- A date is invalid and cannot be picked if there is < 3 non-conflicting calls to discuss for that date
- A call can be discussed in multiple meetings, just as long as they're on different dates

For Task 3

A1: a conflict is defined as the principle investigator and the reviewer of a proposal both appearing in the same row in the conflicts table.