Database Systems

CMPT 308

-Lab 2: CAP database - 20 points

Goals

- More practice getting around in the PostgreSQL and pgAdmin environments.
- Familiarize yourself with the CAP database data.
- Get some easy lab points.

Instructions

Create our beloved CAP3 database in PostgreSQL. Use the script at http://www.labouseur.com/courses/db/cap3.txt.

1. Execute the following queries (one at a time) from pgAdmin's SQL Tool:



from customers;

select *

select *

from agents;

select *

from products;

select *

from orders;



Take a screen shot of each query and its results. Compare those to the data in the CAP snapshot at http://www.labouseur.com/courses/db/cap3.pdf.

- 2. Explain the distinctions among the terms primary key, candidate key, and superkey.
- 3. Write a short essay on data types. Select a topic for which you might create a table. Name the table and list its fields (columns). For each field, give its data type and whether or not it is nullable.
- 4. Explain the following relational "rules" with examples and reasons why they are important.
 - a. The "first normal form" rule
 - b. The "access rows by content only" rule
 - c. The "all rows must be unique" rule

Resources

- Chapter 6.1 in our text
- pgAdminIII documentation http://www.pgadmin.org/docs/
- pgAdmin tag at Stack Overflow http://stackoverflow.com/questions/tagged/pgadmin
- SQL tag at Stack Overflow http://stackoverflow.com/questions/tagged/sql

Submitting

Make a PDF document and push your work to your GitHub repository **before** due date (see syllabus). Remember to include your name, the date, and the assignment in the (copious, meaningful, and accurate) check-in messages. Then e-mail Alan the url of your GitHub repository if you have not done so already.