Database Systems
CMPT 308

Lab 3: Getting Started with SQL Queries - 20 points

Goals

To become accustomed to writing SQL queries. To enjoy the beauty and accuracy of the relational model. To earn some still-easy lab points.

Before you begin

Check that your instance of our beloved CAP database is **exactly** the same as mine on our class web site. You need to have a clean instance when you begin this assignment. If you've modified it in any manner, please drop everything in CAP and reload from the scripts on our class web page.

Instructions

Use our CAP database to answer all of these questions. Write only one query per question. For each question, first write the SQL query yourself and validate your answer against the CAP database as shown on our web site. Then use an AI to generate the SQL and run that. Compare your answer to the results from the AI-generated query and grade the AI's output. When writing your queries, be certain to end each query with a semi-colon and to label each query with the question number in a comment. Finally, remember that CAP is one snapshot in the lifetime of that database, and the queries you write should return the correct answer for all time, not just for this snapshot.

1. List the order number and total dollars of all orders.

2. List the last name and home city of people whose prefix is "Ms.".

3. List the id, name, and quantity on hand of products with quantity more than 1007.

4. List the first name and home city of people born in the 1940s.

5. List the prefix and last name of people who are not "Mr.".

6. List all fields for products in neither Dallas nor Duluth that cost US$17 or less.

7. List all fields for orders in January of **any** year.

8. List all fields for orders in February of **any** year of US$23,000 or more.

9. List all orders from the customer whose id is 010.

10. List all orders from the customer whose id is 005.

Advice

Test, test, and test again. Then test some more. When you think you've tested enough, go back and keep testing. Then get someone else to test for you while you test theirs.

Push your work to your GitHub repository early and often. While you're in there . . .
  • Be sure to write meaningful commit messages.

Don't forget to test. A lot. Really. (Rilly.)

Resources

• Chapter 6.1 in our text
• SQL tag at Stack Overflow - http://stackoverflow.com/questions/tagged/sql

Submitting

Submit your work as a text file with a *.sql* extension. Push your work to your GitHub repository **before** the due date (see syllabus). Remember to include your name, the date, and the assignment in the (copious, meaningful, and accurate) comments in your code.