Practice CST 8215 - Lab 8 – Joins and 'Group By' Practice

Reference

1. Scripts provided

Objective

1. Run DDL & DML scripts and study the output
2. Learn different types of Joins
3. Understand Group by and Having

Submission

Upload the SelfJoin_Practice.sql with the new inserts and updates.
Upload world_group_by.sql with the answer for q3 a and q3 b.
Upload the EmpDep_DML.sql with the correct inserts

Requirements

1. Run the script Deck.sql. Observe the output of a CARTESIAN PRODUCT, also known as CROSS JOIN.

2. Have SelfJoin DB active. Run the scripts SelfJoin_Practice.sql. Observe how the manager's data, i.e. ManagerID needs to be inserted first and then the employee records. Alternatively ManagerID can be updated later. Observe the two ways in which a constraint can be implemented. First at the time of creating the table or by using ALTER TABLE clause. Draw the hierarchy of the employees and his/her manager. Insert the following Employee Records. Create EmployeeID's by using the first letter of the employees name with a next available digit for that letter. (For example c1 for Corred, d1 for Dijov)
(a) Corred reports to Mooq
(b) Dijjov reports to Corred
(c) Cifzuy reports to Corred
(d) Dapdom reports to Dijjov
(e) Xigmok reports to Dijjov
(f) Luyban reports to Cifzuy
(g) Qabrex reports to Cifzuy

3. Have world DB active. Open SQL Editor and write two queries with GROUP BY and HAVING
a) List the countries that have more than 200 cities in the database, use GROUP BY and HAVING
Your result should have the following countries.

"BRA"	250
"CHN"	363
"JPN"	248
"IND"	341
"USA"	274

b) Modify the statement to replace the country code with country name. Your result should be similar to the list below. (Hint: Use Join in addition to Group by and Having)

"Brazil"	250
"India"	341
"Japan"	248
"United States"	274
"China"	363

4. Make a new database EmpDep. Run the DDL and DML for this database. Observe why the insert statement doesn’t work. Edit it to work correctly. Run the queries and understand the differences.