Introduction to Databases
Advanced SQL

Dr Paolo Guagliardo

(v26.0)

Problem 1. Consider a schema with the following tables:

Customer over attributes *ID*, *Name*, *City*

Account over attributes *Number*, *Branch*, *CustID* and *Balance*

under the following constraints:

- no two rows of Customer have the same value for *ID*,
- no two rows of Account have the same value for *Number*, and
- all values in column *CustID* in Account appear in column *ID* in Customer.

Write the following queries in SQL:

(1) "ID and name of customers living in London who do **not** own any account in Edinburgh."

(2) "ID and name of customers who own an account in **every** branch."

(3) "ID and name of customers who own an account with a balance which is no less than the balance of any other account."

(4) "Customers who own an account with a balance that is at least 500 pounds higher than the average balance of all accounts in the same branch (of the account in question). Return the customer's ID, their name, and the corresponding account number."