

CS250/219 Database Systems: Ex 5

Assume that we have these tables:

- CUST: schema (cid, name),
where cid and name are a customer's id and name, respectively.
The table has a candidate key {cid}.
- ACCOUNT: schema (aid, cid, bid, balance),
where each tuple represents an account. Specifically, aid is the account id, cid is the customer id of the account's owner, bid is the id of the branch where the account was opened, and the meaning of balance is obvious. The table has a candidate key {cid, bid}, and another candidate key {aid}.

Write SQL queries to solve the following problems.

Problem 1. Find the owners' names of the counts whose balances are greater than the average balance of all accounts.

Problem 2. Define the wealth of a customer as the total balance of all her/his accounts. Report the cids of the customers whose wealths are greater than the average wealth of all customers.

Problem 3. Find the cid of the customer that owns the largest number of accounts. If multiple customers have the same largest number of accounts, their names should all be displayed.

Problem 4*. For each branch, display its bid, and the cid(s) of the owner(s) of the account(s) with the largest balance among all the accounts in that branch.