



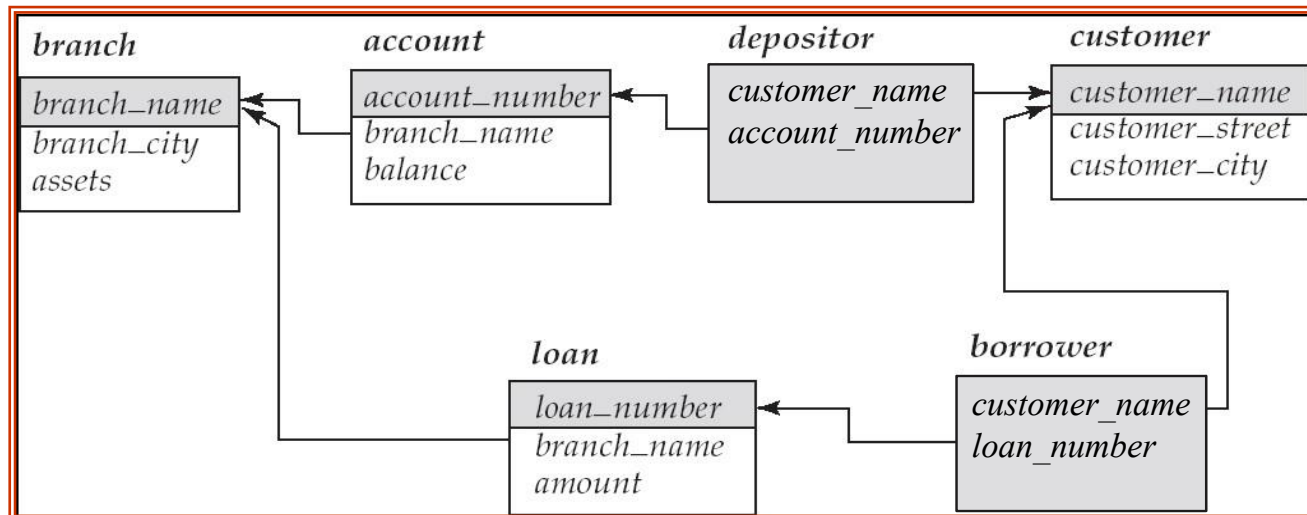
KOREA UNIVERSITY
DATABASE LAB

Chapter 2 - Lab

Relational Algebra

Exercise

- Consider the following relational schema
 - branch (branch-name, branch-city, assets)
 - account (account-number, branch-name, balance)
 - customer (customer-name, customer-street, customer-city)
 - loan (loan-number, branch-name, amount)
 - depositor (customer-name, account-number)
 - borrower (customer-name, loan-number)



Exercise

- Make relational algebra expressions for the following questions
 - a. Find the loan number for each loan of an amount greater than \$1200.
 - b. Find the names of all customers who have a loan, an account, or both, from the bank.
 - c. Find the names of all customers who have a loan at the *Perryridge* branch.
 - d. Find the names of all customers who have a loan at the *Perryridge* branch but do not have an account at any branch of the bank.
 - e. Find the largest account balance value.
 - f. Find the names of all customers who have accounts from at least the *Downtown* and *Uptown* branches.



Homework

- Submit your answers in image files (photo-taken, scanned, etc) on [“kulms.korea.ac.kr”](http://kulms.korea.ac.kr)
- (Firm) Deadline: 2024/04/02 10:29:59
 - **No late submission**