



CS 5012: Foundations of Computer Science

Relational Schema for Bank Enterprise

- **SCHEMAS FROM STRONG ENTITY SETS:**

branch (branch_name, branch_city, assets)

customer (customer_id, customer_name, customer_street, customer_city)

loan (loan number, amount)

account (account number, balance)

employee (employee_id, employee_name, telephone_number, start_date)

- **SCHEMAS FROM MULTIVALUED ATTRIBUTES:**

dependent_name (employee_id, d name)

- **SCHEMAS FROM RELATIONSHIP SETS BETWEEN STRONG ENTITY SETS:**

account_branch (account number, branch_name)

loan_branch (loan number, branch_name)

borrower (customer_id, loan number)

depositor (customer_id, account number)

cust_banker (customer_id, employee_id, type)

works_for (worker employee_id, manager_employee_id)

- **SCHEMAS FROM WEAK ENTITY SET**

payment (loan number, payment number, payment_date, payment_amount)

- **SCHEMAS FROM ISA RELATIONSHIPS**

savings_account (account number, interest_rate)

checking_account (account number, overdraft_amount)

E-R Diagram for Bank Enterprise

