

LAB 8

Q3. Draw ER Diagram for an Online Banking System.

Description:

We want to build a system for online banking system. In the system the accounts can be opened in a branch. The branch gives loan to the customer. The customer borrows loan and the loan is paid through a weak entity “payment”. The customer can deposit in his account. The employee serves the customer. An account can be a saving account or a current account.

Identify the possible entities and their attribute, the relationships among the attributes and draw the E-R diagram for the above mentioned activities and associations.

Solution:

Step 1: Identify the entities and their attributes

Entity	Attributes
1. Branch	branch-name, branch-city, assets
2. Customer	customer-id, customer-name, Customer-street, customer-city
3. Loan	loan-number, amount
4. Payment	payment-number, payment-amount, payment-date
5. Account	account-number, balance
6. Saving-account	interest-rate, Account no., Name
7. Current-account	interest-rate, Account no. Name
8. Employee	employee-ID, employee-name, start-date, telephone-number

Step 2: Identify the relationships among the entities

1. Branch have Account

2. Branch gives Loan
3. Payment loan-payment loan
4. Customer borrows loan
5. Customer deposits account
6. Employee serves Customer

Step 3: Draw the ER Diagram

