



Department of Computer Science and Design

Subject: DBMS

Code: 3290304

Assignment 2 (CO2)

Question 1	<p>Consider the E-R diagram</p> <p>Describe all the minimal required relations with their respective primary keys and foreign keys.</p>	CO2 (L2)
Question 2	<p>Consider the E-R diagram</p> <p>Describe all the minimal required relations with their respective primary keys and foreign keys.</p>	CO2 (L4)
Question 3	<p>Consider the following schema for a library database:</p> <p>Emp (Eid, Ename, Salary, Address, Dept-id, Age)</p> <p>Dept (Dept-id, Dname, Address)</p>	CO2 (L6)



	<p>Write relational algebra expressions for the following queries:</p> <ul style="list-style-type: none">(a) Find name of employee whose address is 'BHOPAL'.(b) Find all employee working for 'CSE' department.(c) Find the Employee id of all the employees whose age is greater than 30.(d) Find Names of all the employees whose address is same as the department address.	
Question 4	<p>Specify the following queries in relational algebra:</p> <p>branch (branch-name, branch-city, assets)</p> <p>customer (customer-name, customer-street, customer-only)</p> <p>account (<u>account-number</u>, branch-name, balance)</p> <p>loan (<u>loan-number</u>, branch-name, amount)</p> <p>depositor (customer-name, account-number)</p> <p>borrower (customer-name, loan-number)</p> <p>Write relational algebra expressions for the following queries:</p> <ul style="list-style-type: none">(a) Find all loans of over 1200(b) Find the loan number for each loan of an amount greater than 1200(c) Find the names of all customers who have a loan, an account, or both, from the bank(d) Find the names of all customers who have a loan and an account at bank.(e) Find the names of all customers who have a loan at the "Perryridge" branch(f) 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.	CO2 (L6)