CAT – I Lab
Database Technologies – ITA5008

Question 1

Customer (ssn, name, address)

Account (acc_no, balance, type, ssn)

Loan (loan no, amount, type, ssn, date_of_start, date_of_end)

1. Create tables identifying the primary keys and foreign keys　　　**(5)**

2. Insert necessary tuples into the tables. (Min 5 rows)　　　**(5)**

3. Queries　　　　　　　　　　　　　　　　　　　　**(1x5=5)**

    (1) Retrieve the customer whose name starts with S.

    (2) Find the customer who have taken the loan more than 2 Lakhs.

    (3) Customer names who have taken loan from the bank.

    (4) List all the customer who are residing at Chennai.

    (5) Find the customer whose balance is less than 1000 rupees.

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Question 2

Employee (SSN, Name, Sex, Address, salary, Dept, designation, SupervisorSSN) Department

(Number, Name, ManagerSSN, Manager_DOB, Location)

Project (Number, Name, Location, Controlling Department, Budget)

Works_on (SSN, Project Num, Hours)

1. Create tables identifying the primary keys and foreign keys **(5)**
2. Insert necessary tuples into the tables. (min 5 rows) **(5)**

3. Queries **(1 × 5 = 5)**

   (1) Project names which are in a particular location.
   (2) Retrieve the customer whose name end with A.

   (3) Department details which has a no manager.

   (4) Display all the department names in upper case and lower case.

   (5) Find the employee who have taken the salary more than 50000.

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Question 3

Student (reg_no, stu_name,DOB,address,city)

Mark_deatils(reg_no,mark1,mark2,mark3,total)

1. **Create tables** identifying the primary keys and foreign keys **(5)**
2. Insert necessary tuples into the tables. (min 5 rows) **(5)**
3. **Queries** **(1 × 5 = 5)**

   1. Display only those rows whose total ranges between 250 and 300.

   2. Find average mark of student

   3. Drop the table mark_details.

   4. Delete the row whose reg_no=161.

   5. Display all details whose names begins with 'a'.