Course Name: RDBMS Laboratory
Course Code: M23DE0108

PART A

1. DEPARTMENT (dept_no, dept_name, location)

1. Create the Simple DEPARTMENT Table.
2. Display structure of department table.
3. Insert below records into Department Table

Dept_no	Dept_name	Location
10	Account	NY
20	HR	NY
30	Production	DL
40	Sales	NY
50	EDP	MU
60	TRG	
110	RND	AH

4. Display all records of Department table
5. Display all department belonging to location 'NY'
6. Display details of Department 10
7. List all department names starting with 'A'
8. List all departments whose number is between 1 and 100
9. Delete 'TRG' department
10. Change department name 'EDP' to 'IT

2. EMP (emp_id, emp_name, birth_date, gender, dept_no, address, designation, salary,experience, email) DEPARTMENT (dept_no, dept_name, location)

Create the EMP Table with all necessary constraints such as

In EMP TABLE: Employee id should be primary key, Department no should be Foreign key, salary should be greater than zero, designation of employee can be "manager", "clerk", "leader", "analyst", "designer", "coder","tester".

1. Create DEPT table with necessary constraint such as
2. Department no should be primary key, department name should be unique.
3. After creation of above tables, modify Employee table by adding the constraints as
4. 'Male' or 'Female' in gender field and display the structure.
5. Insert proper data (at least 5 appropriate records) in all the tables.

6. Describe the structure of table created
7. List all records of each table in ascending order.
8. Delete the department whose location is Ahmedabad.
9. Display female employee list
10. Display Depart name wise employee Names
11. Find the names of the employee who has salary less than 5000 and greater than 2000.
12. Display the names and the designation of all female employee in descending order.

3. STUDENT (rollno, name, class, birthdate)
COURSE (courseno, coursename, max_marks, pass_marks)
SC (rollno, courseno, marks)

1. Create the above three tables along with key constraints.
2. insert appropriate data.
3. Add a constraint that the marks entered should strictly be between 0 and 100.
4. Display details of student who takes 'Database Management System' course.
5. Display the names of students who have scored more than 70% in Computer Networks and have not failed in any subject.
6. Display the average marks obtained by each student.
7. Select all courses where passing marks are more than 30% of average maximum mark.

4. Create the database COMPANY and create given tables with all necessary constraints such as primary key, foreign key, unique key, not null and check constraints.

EMPLOYEE (emp_id, emp_name, birth_date, gender, dept_no, address, designation, salary, experience, email)
DEPART (dept_no, dept_name, total_employees, location)
PROJECT (proj_id, type_of_project, status, start_date, emp_id)

Insert proper data (at least 5 appropriate records) in all the tables.

1. Delete the department whose total number of employees less than 1.
2. Display the names and the designation of all female employee in descending order.
3. Display the names of all the employees who names starts with 'A' ends with 'A'.
4. Find the name of employee and salary for those who had obtain minimum salary.
5. Add 10% raise in salary of all employees whose department is 'CIVIL'.
6. Count total number of employees of 'MCA' department.
7. List all employees who born in the current month.

PART B

1. **Write a PL/SQL to update the rate field by 20% more than the current rate in inventory table which has the following fields: Prono, ProName and Rate. After updating the table a new field (Alter) calledfor Number of item and place for values for the new field without using PL/SQL block.**

2. **Write a PL/SQL to split the student table into two tables based on result (One table for —Pass and another for —Fail). Use cursor for handling records of student table. Assume necessary fields and create a student details table.**

3. **Create a database trigger to implement on master and transaction tables which are based on inventory management system for checking data validity. Assume the necessary fields for both tables.**

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