University of Engineering & Management, Kolkata

Course: B.Tech in CSE

Semester: 5th

Paper Name: Data Base Management System Lab

Paper Code: PCCCS591

Assignment No 5

Consider the following Employee table and execute the queries based on it

Emp id	F name	L name	Job Type	Salary	Commision	Dept	Manager_id	DOJ
1	Arun	Khan	Manager	90000		Production		04-Jan-1998
2	Barun	Kumar	Manager	80 000		Marketing		09-Feb-1998 Sunday 0?
3	Chitra	Kapoor	Engineer	60 000		Production	1	08-Jan-1998
4	Dheeraj	Mishra	Manager	75000		Sales	4	27-Dec-2001
5	Emma	Dutt	Engineer	55 000		Production	1	20-Mar-2002
6	Floki	Dutt	Accountant	70000		Acants		16-Jul-2000
7	Dheeraj	Kumar	Clerk	40000		Accounts	6	01-Jul-2016
8	Saul	Good	Engineer	60 000		R&D Production		06-Sep-2014
9	Mou	Bhat	Clerk	30000		Sales	4	08-Mar-2018
10	Sunny	Deol	Salesman	20000	10 000	Marketing	2	31-Mar-2001
11	Bobby	Deol	Engineer	35000		R&D	8	17-Oct-2017
12	Aamir	Khan	Salesman	15 000	5000	Marketing	2	11-Jan-2013

Also consider the following Department table

D-Name	D-Loc	HOD_ID
Sales	Kol	4
Accounts	Delhi	6
Production	Kol	1
Marketing	Kol	2
R&D	Delhi	8

1. Find the Cartesian product between Employee and Department table.
2. Show the employee names and the respective department location.
3. Find the employee name and date of joining who are working in Delhi.
4. Create a table 'Emp_Address' for storing the permanent address of the employees and insert the following values:

Emp-id	City	District	State
1	Suri	Birbhum	WB
2	Kolkata	Kolkata	WB
3	Bhubaneswar	Khurda	Odisha
4	Durgapur	Burdwan	WB
5	Noida	GB Nagar	UP
6	Secunderabad	Hyderabad	Telangana
7	Derhadun	Derhadun	Uttarakhand
8	Asansol	Bordwan	WB
9	Siliguri	Darjeeling	WB
10	Kolkata	Kolkata	WB
11	Jalpaiguri	Jalpaiguri	WB
12	New Delhi	New Delhi	Delhi

5. Display the name of employees, department location and the city name the employee belongs to, from the Employee, Department and Emp_Address tables.
6. Find the name of each department's manager.
7. Create 'Job_Grades' table and insert the following values:

GRADE	LOWEST_SAL	HIGHEST_SAL
A	10000	24,999
B	25000	49,999
C	50000	100000

8. Display the employee names with their respective job grades and salary.
9. Insert two rows in Employee table having 'NULL' values in dept field.
10. Insert two rows in Department table.
11. Perform the following joins considering Employee and Department tables.
   a. Natural join
   b. Inner join
   c. Left outer join
   d. Right outer join
   e. Full outer join