University of Engineering & Management, Kolkata

Course: B.Tech (CSE / CSE(AIML) / CSE(IOT-CYS-BCT) / CSBS

Semester: 5th

Paper Name: Data Base Management System Lab

Paper Code: PCCCS591

Assignment No 2

1. Create a table employee with attributes emp_id, f_name, l_name, job_type, salary, dept, commission, manager_id.
2. Make emp_id as the primary key of employee table.
3. Make f_name and salary NOT NULL type.
4. Add a column date_of_joining in the employee table.
5. Create a table department with attribute d_name, d_loc and HOD_id where d_name is primary key.
6. Create a table location with attributes loc_id, city and contact_no.
7. Enhance the size of the 'city' attribute by 5, in the location table.
8. Delete the contact_no attribute from the location table.
9. Make the department attribute of the employee table its foreign key referencing the department table.
10. Rename the city attribute to 'address' in the location table.
11. Rename the location table name to 'loc'.
12. Insert the following rows in 'loc' table

loc_id	address
1	Kolkata
2	Mumbai

13. Truncate the table ‘loc’.
14. Drop the table ‘loc’.
15. Insert the following rows in the department table:

d_name	d_loc	HOD_id
Sales	Kol	4
Accounts	Delhi	6
Production	Kol	1
Marketing	Kol	2
R & D	Marketing	8

16. Insert the following rows in the employee table:

Emp_id	Fname	Lname	Job_Type	Salary	Commision	Dept	Manager_id	DOJ
1	Arun	Khan	Manager	90000		Production		04-Jan-1998
2	Barun	Kumar	Manager	80000		Marketing		09-Feb-1998 Sunday 02
3	Chitra	Kapoor	Engineer	60000		Production	1	08-Jan-1998
4	Dheeraj	Mishra	Manager	75000		Sales	4	27-Dec-2001
5	Emma	Dutt	Engineer	55000		Production	1	20-Mar-2002
6	Floki	Dutt	Accountant	70000		Accounts		16-Jul-2000
7	Dheeraj	Kumar	Clerk	40000		Accounts	6	01-Jul-2016
8	Saul	Good	Engineer	60000		R&D Production		06-Sep-2014
9	Mou	Ghat	Clerk	30000		Sales	4	08-Mar-2018
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001
11	Bobby	Deol	Engineer	35000		R&D	8	17-Oct-2017
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013

17. Show the values of departmental table.
18. Select the department names and their locations.
19. Show the employees f_name , l_name , salary and the salary after 1000rs. Bonus.
20. Show the employees annual salary with a 1000rs. Yearly bonus and the annual salary with a 100rs. Monthly bonus.
21. Show f_name as NAME and annual salary as ANNSAL from the employee table.
22. Show the l_name as LasT AND 100rs. Incremented salary as NewSal.
23. Show the emp_id, f_name, l_name, job_type of the employee getting highest salary.
24. Show the emp_id, f_name, l_name, job_type of the employee getting minimum salary.
25. Show the average salary of employees in the employee table.
26. Consider the Insurance database given below. The primary keys are underlined and the data types are specified:

PERSON (driver-id: string, name: string, address: string)

CAR (Regno:string,model:string,year:int)

ACCIDENT (report-number:int,date:date,location:string)

OWNS (driver-id:string,regno:string)

PARTICIPATED (driver-id:string,regno:string,report-number:int,damage-amount:int)

i. Create the above tables by properly specifying the primary keys and the foreign keys

ii. Enter atleast five tuples for each relation

iii. Demonstrate how you a. Update the damage amount for the car with a specific regno in accident with report number 12 to 25000 b. Add a new accident to the database

iv. Find the total number of people who owned cars that were involved in accidents in 2006.

v. Find the number of accidents in which cars belonging to a specific model were involved.