University of Engineering & Management, Kolkata

Course: B.Tech in CSE

Semester: 5th

Paper Name: Data Base Management System Lab

Paper Code: PCCCS591

Assignment No 7

1. Create Job_History table and insert the following data

Emp_id	Start_date	End_date	Job_type	D_name
1	04-Jan-1998	30-Jun-2001	Engineer	Production
2	09-Feb-1998	28-Feb-2002	Salesman	Sales
1	01-Jul-2001	31-Dec-2010	Manager	R & D
4	27-Dec-2001	19-Sep-2016	Sales_executive	Marketing
2	01-Mar-2002	30-Mar-2015	Sales_Executive	Marketing
2	01-Apr-2016	15-Dec-2017	Manager	Sales
4	20-Sep-2016	16-Dec-2017	[redacted] Asst. Manager	Sales
6	16-Jul-2000	30-NOV-2006	Clerk	Accounts
5	20-Mar-2002	12-Aug-2011	Engineer	R & D
1	01-Jan-2011	31-Jan-2012	Engineer	Production

2. Display the previous and current job_types of all the employees.
3. Display the previous and current department and job_types of all the employees.

4. Display the employee id and job_types of the employees who currently have a job title that they held previously.
5. Find the name of those employees who have not changed their jobs once.
6. Find the names of the employees who earn more than Chitra.
7. Find the details of those employees who have the same job_type as of emp_id 7.
8. Find the details of the employees whose job_type is same as that of emp_id 3 and whose salary is greater than that of emp_id 7.
9. Display l_name, job_type and the salary of the employees whose salary is equal to the minimum salary.
10. Find the job_type with lowest average salary.
11. Display all the departments that have a minimum salary greater than that of 'Sales' department.
12. Find the employees who earn the same salary for each department.
13. Display the employees who are not engineers and whose salary is less than that of any engineer.
14. Display the employees whose salary is less than the salary of all employees with a job_type 'Clerk' and whose job_type is not 'Clerk'.
15. Consider the following database of students enrollment in courses and books adopted

for each course.

STUDENT(regno: string, name: string, major: strong, bdate: date)

COURSE(course-no: int cname: string, dept: string)

ENROLL(reg-no: string, course-no: int, sem: int, marks: int)

BOOK-ADOPTION(course-no: int, sem: int, book-isbn: int)

TEXT(book-isbn: int, book-title: string, publisher: string, author: string)

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 add a new text book to the database and make this book be

adopted by some department.

iv) Produce a list of text books (include Course-no, book-isbn, book-title) in the alphabetical order for courses offered by the ‘Compute Science’ department that use more than two books.

v) List any department that has all its adopted books published by a specific publisher.

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Assignment No 8

1. **The following tables are maintained by a book dealer**

AUTHOR(author-id: int, name: string, city: string, country: string)

PUBLISHER(publisher-id: int name: string, city: string, country: string)

CATLOG(book-id: int, title : string, author-id: int, publisher-id: int, category: int, year:

int, price: int)

CATEGORY(category-id: int, description: string)

ORDER-DETAILS(order-no: int, book-id: int, quantity: int)

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

ii) Enter atleast five tuples for each relation.

iii) Give the details of the authors who have 2 or more books in the catalog and the price of the books is greater than the average price of the books in the catalog and the year of publication is after 2010.

iv) Find the author of the book which has maximum sales.

v) Demonstrate how to increase price of books published by specific publisher by 10%