

ASSIGNMENT - 7
RELATIONAL ALGEBRA

For the following relations, write relational algebraic solutions as per the requirements:

STAFF (EMPNO, NAME, SAL, AGE, NUMPUBL, DNO)

DEPT (DNO, DNAME, MANAGER, FLOOR)

1. Retrieve information about the CS department.
2. Retrieve name and salary about faculty whose age is greater than 30 or whose number of publications is greater than 10.
3. Retrieve names of staff members who work in departments located on the fifth floor.
4. Retrieve names of staff members who work for all the departments.
5. Retrieve names of managers who have not published any papers.
6. Retrieve the total number of staff members working in each department.
7. Update the staff table, increasing the salary of all those members who have publications by 20% and decreasing the salaries of the rest by 5%.
8. Insert a new record in the DEPT table.
9. Delete all those staff members who are either working on the second floor or are managers.
10. Retrieve the details of staff members and the details of departments they are working in if they are managers.
11. Retrieve details of employees and their departments as well as details of departments where no employees are working.