

Company database

- a) CREATE TRIGGER upper_name
BEFORE INSERT OR UPDATE ON EMPLOYEE
FOR EACH ROW
SET NEW.Name = UPPER(NEW.Name);
- b) SELECT DISTINCT P.PNo
FROM PROJECT P
JOIN WORKS_ON W ON P.PNo = W.PNo
JOIN EMPLOYEE E ON W.SSN = E.SSN
WHERE E.Name LIKE '%Scott%'
UNION
SELECT P.PNo
FROM PROJECT P
JOIN DEPARTMENT D ON P.DNo = D.DNo
JOIN EMPLOYEE E ON D.MgrSSN = E.SSN
WHERE E.Name LIKE '%Scott%';
- c) SELECT E.Name, E.Salary * 1.10 AS New_Salary
FROM EMPLOYEE E
JOIN WORKS_ON W ON E.SSN = W.SSN
JOIN PROJECT P ON W.PNo = P.PNo
WHERE P.PName = 'IoT';
- d) SELECT
SUM(E.Salary) AS Total_Salary,
MAX(E.Salary) AS Max_Salary,
MIN(E.Salary) AS Min_Salary,
AVG(E.Salary) AS Avg_Salary
FROM EMPLOYEE E
JOIN DEPARTMENT D ON E.DNo = D.DNo
WHERE D.DName = 'Accounts';
- e) SELECT E.Name
FROM EMPLOYEE E
WHERE NOT EXISTS (
SELECT P.PNo
FROM PROJECT P
WHERE P.DNo = 5
EXCEPT
SELECT W.PNo
FROM WORKS_ON W
WHERE W.SSN = E.SSN
);

