4th

1. SELECT DISTINCT PROJECT.PNo

FROM PROJECT

JOIN DEPARTMENT ON PROJECT.DNo = DEPARTMENT.DNo

JOIN EMPLOYEE ON EMPLOYEE.SSN = DEPARTMENT.MgrSSN OR EMPLOYEE.DNo = PROJECT.DNo

WHERE EMPLOYEE.Name LIKE '%Scott%';

2. SELECT EMPLOYEE.Name, EMPLOYEE.Salary + (EMPLOYEE.Salary \* 0.1) AS NewSalary

FROM EMPLOYEE

JOIN WORKS\_ON ON EMPLOYEE.SSN = WORKS\_ON.SSN

JOIN PROJECT ON PROJECT.PNo = WORKS\_ON.PNo

WHERE PROJECT.PName = 'IoT';

3. SELECT SUM(EMPLOYEE.Salary) AS TotalSalary, MAX(EMPLOYEE.Salary) AS MaxSalary, MIN(EMPLOYEE.Salary) AS MinSalary, AVG(EMPLOYEE.Salary) AS AverageSalary

FROM EMPLOYEE

JOIN DEPARTMENT ON EMPLOYEE.DNo = DEPARTMENT.DNo

WHERE DEPARTMENT.DName = 'Accounts';

4. SELECT EMPLOYEE.Name

FROM EMPLOYEE

WHERE NOT EXISTS

(SELECT PNo FROM PROJECT

WHERE PROJECT.DNo = 5

AND NOT EXISTS

(SELECT SSN FROM WORKS\_ON

WHERE WORKS\_ON.SSN = EMPLOYEE.SSN

AND WORKS\_ON.PNo = PROJECT.PNo));

5. SELECT DEPARTMENT.DNo, COUNT(EMPLOYEE.SSN)

FROM DEPARTMENT

JOIN EMPLOYEE ON DEPARTMENT.DNo = EMPLOYEE.DNo

WHERE EMPLOYEE.Salary > 600000

GROUP BY DEPARTMENT.DNo

HAVING COUNT(EMPLOYEE.SSN) > 5;

1st

1. SELECT aname

FROM AIRCRAFT A

WHERE NOT EXISTS (

SELECT \*

FROM CERTIFIED C

JOIN EMPLOYEES E ON C.eid = E.eid

WHERE A.aid = C.aid AND E.salary <= 80000

);

2. SELECT E.eid, MAX(A.cruisingrange)

FROM CERTIFIED C

JOIN EMPLOYEES E ON C.eid = E.eid

JOIN AIRCRAFT A ON C.aid = A.aid

GROUP BY E.eid

HAVING COUNT(\*) > 3;

3. SELECT ename

FROM EMPLOYEES E

WHERE E.salary < (

SELECT MIN(price)

FROM FLIGHTS

WHERE from = 'Bengaluru' AND to = 'Frankfurt'

);

4. SELECT A.aname, AVG(E.salary)

FROM AIRCRAFT A

JOIN CERTIFIED C ON A.aid = C.aid

JOIN EMPLOYEES E ON C.eid = E.eid

WHERE A.cruisingrange > 1000

GROUP BY A.aname;

5. SELECT DISTINCT E.ename

FROM EMPLOYEES E

JOIN CERTIFIED C ON E.eid = C.eid

JOIN AIRCRAFT A ON C.aid = A.aid

WHERE A.aname LIKE 'Boeing%';

6. SELECT DISTINCT A.aid

FROM AIRCRAFT A

JOIN CERTIFIED C ON A.aid = C.aid

WHERE A.cruisingrange >= (

SELECT distance

FROM FLIGHTS

WHERE from = 'Bengaluru' AND to = 'New Delhi'

);

2nd

1. SELECT DISTINCT D.customer\_name

FROM DEPOSITOR D

JOIN ACCOUNT A ON D.accno = A.accno

WHERE A.branch\_name = 'Main'

GROUP BY D.customer\_name

HAVING COUNT(\*) >= 2;

2. SELECT C.customer\_name

FROM CUSTOMER C

WHERE NOT EXISTS (

SELECT B.branch\_name

FROM BRANCH B

WHERE B.branch\_city = 'New York' AND B.branch\_name NOT IN (

SELECT A.branch\_name

FROM ACCOUNT A

JOIN DEPOSITOR D ON A.accno = D.accno

WHERE D.customer\_name = C.customer\_name

)

)

3. DELETE FROM ACCOUNT

WHERE branch\_name IN (

SELECT branch\_name FROM BRANCH

WHERE branch\_city = 'New York'

);

3rd

1. SELECT S.USN, S.SName, S.Address, S.Phone, S.Gender

FROM STUDENT S

JOIN CLASS C ON S.USN = C.USN

JOIN SEMSEC SS ON C.SSID = SS.SSID

WHERE SS.Sem = 4 AND SS.Sec = 'C';

2. SELECT SS.Sem, SS.Sec, SUM(CASE WHEN S.Gender = 'Male' THEN 1 ELSE 0 END) as Male\_Count, SUM(CASE WHEN S.Gender = 'Female' THEN 1 ELSE 0 END) as Female\_Count

FROM STUDENT S

JOIN CLASS C ON S.USN = C.USN

JOIN SEMSEC SS ON C.SSID = SS.SSID

GROUP BY SS.Sem, SS.Sec;

3. CREATE VIEW Test1Marks AS

SELECT S.Title, IM.Test1

FROM IAMARKS IM

JOIN SUBJECT S ON IM.Subcode = S.Subcode

WHERE IM.USN = '1BI15CS101';

4. UPDATE IAMARKS

SET FinalIA = (GREATEST(Test1, Test2) + GREATEST(Test2, Test3)) / 2;

5. UPDATE IAMARKS

SET CAT =

CASE

WHEN FinalIA >= 17 AND FinalIA <= 20 THEN 'Outstanding'

WHEN FinalIA >= 12 AND FinalIA <= 16 THEN 'Average'

WHEN FinalIA < 12 THEN 'Weak'

END

WHERE SSID IN (SELECT SSID FROM SEMSEC

WHERE Sem = 8 AND Sec IN ('A', 'B', 'C'));