LAB 5

1.Select e.ename,d.dname,d.dloc

from employee e, dept d

where e.deptno=d.deptno;

ename	dname	dloc
Aarav	HR	Bengaluru
Diya	Finance	Hyderabad
Ravi	IT	Mysuru
Kiran	IT	Mysuru
Meena	Sales	Chennai
Rohit	R&D	Delhi

2. Select e.ename,e.empno

from employee e

left join assigned_to a on e.empno=a.empno

where a.pno is null;

ename	empno

select p.pname,count(*) as headcount

from project p

left join assigned_to a on p.pno=a.pno

group by p.pname

order by headcount desc;

pname	headcount
ERP Upgrade	2
Payroll System	1
Tax Automation	1
CRM App	1
Ad Campaign	1
AI Research	1

3. select d.dname, avg(e.sal) as avg_salary,

max(e.sal) as max_salary

from employee e, dept d

where e.deptno=d.deptno

group by d.dname;

dname	avg_salary	max_salary
HR	20000.000000	20000.00
Finance	40000.000000	40000.00
IT	62500.000000	70000.00
Sales	30600.000000	30600.00
R&D	30800.000000	30800.00

4. select e.ename, sum(i.incentive_amount) as total_incentive

from employee e , incentives i

where e.empno=i.empno

group by e.ename, e.empno

order by total_incentive desc;

ename	total_incentive
Aarav	6500.00
Rohit	6000.00
Diya	3000.00
Kiran	2500.00
Meena	2000.00

5. select e.empno,e.ename,a.job_role

from employee e , assigned_to a, project p

where e.empno=a.empno and

a.pno=p.pno and

p.pname="alpha Project";

empno	ename	job_role

6. select d.deptno, d.dname

from dept d, employee e

where e.deptno=d.deptno and

e.empno is null;

deptno	dname

7. select m.ename as manager_name,

count(e.empno) as direct_report_count

from employee e , employee m

where e.empno=m.empno

group by m.ename

order by direct_report_count desc;

	manager_name	direct_report_count
▶	Aarav	1
	Diya	1
	Ravi	1
	Kiran	1
	Meena	1
	Rohit	1

8. select e.empno, e.ename, count(a.pno) as number_of_projects

from employee e, assigned_to a

where e.empno=a.empno

group by e.empno, e.ename

having count(a.pno)>1

order by number_of_projects desc;

	empno	ename	number_of_projects

LAB - 5

1. SELECT E.EName, D.Dname, D.DLoc
   FROM Employee E, Department D
   WHERE E.Deptno = D.Deptno;

2. SELECT E.Empno, E.EName
   FROM Employee
   LEFT JOIN "ASSIGNED_TO" A ON
     E.Empno = A.EmpNo
   WHERE A.Pno IS NULL;

8. SELECT P.PName, count(A.Empno) AS HEADCOUNT
   FROM Project P
   LEFT JOIN ASSIGNED_TO ON P.PNO = A.PNO
   GROUP BY P.PName
   ORDER BY Headcount desc;

3. SELECT D.Dname, AVG(E.Sal) AS AVG_Salary,
              ~~AVG(E.~~ MAX(E.Sal) AS MAX_Salary

   FROM Employee
   JOIN Dept D on E.Deptno = D.Deptno
   GROUP BY D.Dname;

4. SELECT E.Ename, SUM(I.Incentive-amount) AS
                     Total-Incentives

   FROM Employee E
   JOIN Incentives I on E.Empno = I.Empno
   Group BY E.Ename, E.Empno
   Order by Total-Incentives Desc;

```sql
5. Select   E. Empno, E. Ename, A. Job-role
   From   Employee
   Join   Assigned_to on E. Empno = A. Empno
   Join   Project P on A. Pno = P. Pno
   Where  P. Pname = 'Alpha Project';


6. Select   D. Deptno, D. Dname
   From   Deptno D
   Left Join
        Employee E on D. Deptno = E. Deptno
   Where  E. Empno is NULL;


7. Select   M. Empname As Manager-name,
        Count (E. Empno) As Direct-Report-count
   From   Employee E
   Join   Employee M on E. Mgr-no = M. Empno
   Group by   M. Ename
   Order by   Direct-Report-count Desc;


8. Select   E. Empno, E. Ename, Count (A. Pno) As
                        Number-of-Projects
   From   Employee E
   Join   Assigned_to on E. Empno = A. Empno
   Group by   E. Empno, E. Ename
   Having   Count (A. Pno) > 1
   Order by   Number-of-Projects Desc;
```

output:

1)

ename	dname	dloc
Aarav	HR	Bengaluru
Qiya	Finance	Hyderabad
Ravi	IT	Mysuru
Kiran	IT	Mysuru
Meena	Sales	Chennai
Rohit	R&D	Delhi

2)

ename	empno

2)

Pname	Headcount
ERP Upgrade	2
Payroll System	1
TAX	1
CRM APP	1
Ad Camp	1
AI research	1

3)

dname	avg_salary	max_salary
HR	20000.00000	20000.00
FINANCE	40000.00000	40000.00
IT	62500.00000	60000.00
SALES	30600.00000	306000.00
R&D	30800.00000	308000.00

4)

ename	total_incentives
Aarav	6500.00
Rohit	6000.00
Qiya	3000.00
Kiran	2500.00
Meena	2000.00

5)

empno	ename	job_role

6)

deptno	dname

7)

manager_name	total_direct_report
	1
Aarav	1
Diya	1
Ravi	1
kian	1
meena	1
Rohit	

8)

empno	ename	number_of_projects

5.

6.

7.

8.