

-- List employees with their department name & location

```
select E.EMPNO,E.ENAME,D.DNAME,D.DLOC  
FROM EMPLOYEE E , DEPT D  
WHERE E.DEPTNO=D.DEPTNO;
```

	EMPNO	ENAME	DNAME	DLOC
▶	101	Amit	HR	Mumbai
	102	Riya	Finance	Delhi
	103	Raj	IT	Bangalore
	104	Sneha	Sales	Pune
	105	Karan	Marketing	Chennai
	106	Meera	R&D	Hyderabad

-- Employees who are not assigned to any project ,Project-wise headcount

```
SELECT E.EMPNO, E.ENAME  
FROM EMPLOYEE E  
LEFT JOIN ASSIGNED_TO A ON E.EMPNO = A.EMPNO  
WHERE A.PNO IS NULL;
```

	EMPNO	ENAME

```

SELECT P.PNAME, COUNT(A.EMPNO)
FROM PROJECT P
LEFT JOIN ASSIGNED_TO A ON P.PNO = A.PNO
GROUP BY P.PNAME;

```

	PNAME	COUNT(A.EMPNO)
▶	Payroll System	1
	Audit Automation	1
	AI Chatbot	1
	CRM Development	1
	Ad Campaign	1
	Product Prototype	1

-- Department-wise average & max salary

```

SELECT D.DNAME, AVG(E.SAL) AS AVG_SALARY, MAX(E.SAL) AS MAX_SALARY
FROM EMPLOYEE E
JOIN DEPT D ON E.DEPTNO = D.DEPTNO
GROUP BY D.DNAME;

```

	DNAME	AVG_SALARY	MAX_SALARY
▶	HR	50000.000000	50000.00
	Finance	60000.000000	60000.00
	IT	55000.000000	55000.00
	Sales	48000.000000	48000.00
	Marketing	70000.000000	70000.00
	R&D	65000.000000	65000.00

-- Total incentives earned by each employee (lifetime)

```
SELECT E.EMPNO, E.ENAME, SUM(I.INCENTIVE_AMOUNT) AS TOTAL_INCENTIVES  
FROM EMPLOYEE E  
JOIN INCENTIVES I ON E.EMPNO = I.EMPNO  
GROUP BY E.EMPNO, E.ENAME;
```

	EMPNO	ENAME	TOTAL_INCENTIVES
▶	101	Amit	5000.00
	102	Riya	4000.00
	103	Raj	3500.00
	104	Sneha	3000.00
	105	Karan	6000.00
	106	Meera	5500.00

-- Employees working on a given project (project name :Alpha Project)

```
SELECT E.EMPNO, E.ENAME, P.PNAME  
FROM EMPLOYEE E  
JOIN ASSIGNED_TO A ON E.EMPNO = A.EMPNO  
JOIN PROJECT P ON A.PNO = P.PNO  
WHERE P.PNAME = 'AI Chatbot';
```

	Result Grid		
	EMPNO	ENAME	PNAME
▶	103	Raj	AI Chatbot

-- Departments with no employees

```
SELECT D.DEPTNO, D.DNAME  
FROM DEPT D  
LEFT JOIN EMPLOYEE E ON D.DEPTNO = E.DEPTNO
```

```
WHERE E.EMPNO IS NULL;
```

	DEPTNO	DNAME

```
-- Managers and their direct report counts (MGR_NO references EMPNO)
```

```
SELECT M.EMPNO AS MANAGER_ID, M.ENAME AS MANAGER_NAME, COUNT(E.EMPNO) AS  
REPORT_COUNT  
  
FROM EMPLOYEE E  
  
JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO  
  
GROUP BY M.EMPNO, M.ENAME;
```

	MANAGER_ID	MANAGER_NAME	REPORT_COUNT
▶	101	Amit	2
	102	Riya	1
	103	Raj	1
	104	Sneha	1

```
-- Employees assigned to more than one project.
```

```
SELECT EMPNO, COUNT(PNO) AS PROJECT_COUNT  
  
FROM ASSIGNED_TO  
  
GROUP BY EMPNO  
  
HAVING COUNT(PNO) > 1;
```

	EMPNO	PROJECT_COUNT