7	1

salary greater than 2000 using INNER JOIN.
++
ename dname
++
*/
USE test;
select ename,dname from emp e inner join dept d where e.deptno=d.deptno and sal>2000
72.
/* Write a SQL query to retrieve all employees and their department locations,
including those without departments, using LEFT JOIN.
++
ename location
++
*/
USE test;
select ename,location from emp e left join dept d on e.deptno=d.deptno;

/* Write a SQL query to list employee names and department names for employees with a

73. /* Write a SQL query to list all department numbers, department names and their

employee counts, including departments with no employees, using RIGHT JOIN.

```
+----+
| deptno | dname | emp count |
+----+
*/
USE test;
select d.deptno,d.dname,count(empno) as emp_count from emp e right join dept d on
e.deptno=d.deptno group by deptno;
74
/* Write a SQL query to simulate a FULL OUTER JOIN to list all employees and
departments, including unmatched rows.
+----+
| empno | ename | deptno | dname |
+----+
*/
USE test;
SELECT e.empno, e.ename, e.deptno, d.dname
FROM emp e
LEFT JOIN dept d ON e.deptno = d.deptno
UNION
SELECT e.empno, e.ename, d.deptno, d.dname
FROM emp e
RIGHT JOIN dept d ON e.deptno = d.deptno;
75.
```

a self-joi	n.
•	
+	
manag	
+	†
*/	
USE test	;
select di	stinct e1.ename as manager from emp e1 ,emp e2 where e1.empno=e2.r
76.	
/* Write	a SQL query to generate all possible employee-department combinations
using CR	OSS JOIN.
uom g	
	·+
ename	e dname
++	·+
*/	
USE test	;
select er	name,dname from emp cross join dept ;
77.	
/* \//rito	a SQL query to list departments with employees earning more than 2500
/ wille	
using EX	ISTS.

deptno dname
++
*/
USE test;
select distinct d.deptno,d.dname from dept d ,emp e where d.deptno=e.deptno and e.sal>2500;
78.
/* Write a SQL query to find departments with number of employees earning less
than 1000 using NOT EXISTS.
++
dname deptno
++
*/
USE test;
select d.dname,d.deptno from dept d where not exists (select 1 from emp e where e.deptno=d.deptno and e.sal<1000);
79.
/* Write a SQL query to find managers and the number of employees they manage in
departments located in 'New York', using the primary key and foreign key
constraints.
++

```
| manager_name | emp_count |
+----+
*/
USE test;
select e1.ename manager_name,count(e2.empno) emp_count from emp e1 join emp e2 on
e1.empno=e2.mgr join dept d on e1.deptno=d.deptno where d.location='New York' group
by e1.ename;
80.
/* Write a SQL query to list all employees and departments, including those
without matches, using a simulated FULL JOIN.
+----+
| empno | ename | deptno | dname | location |
+-----+
*/
USE test;
SELECT e.empno, e.ename, d.deptno, d.dname, d.location
FROM emp e
LEFT JOIN dept d ON e.deptno = d.deptno
UNION
SELECT e.empno, e.ename, d.deptno, d.dname, d.location
FROM emp e
RIGHT JOIN dept d ON e.deptno = d.deptno;
```

```
81.
```

USE test;

/* Write a SQL query to list employee names and department names where the department is in 'Chicago' using INNER JOIN. +----+ | ename | dname | +----+ */ USE test; SELECT e.ename, d.dname FROM emp e INNER JOIN dept d ON e.deptno = d.deptno WHERE d.location = 'Chicago'; 82. /* Retrieve Department-wise Total Salary and Number of Employees (Using GROUP BY and JOIN) +----+ | dname | num_employees | total_salary | +----+ */

select d.dname,count(e.empno) num_employees,sum(e.sal) total_salary from dept d left join emp e on d.deptno=e.deptno group by d.dname;
83.
/* Write a SQL query to list departments with no assigned employees using
RIGHT JOIN.
++
deptno dname
++
*/
USE test;
select d.deptno,d.dname from emp e right join dept d on e.deptno=d.deptno where e.empno is null;
84.
/* Write a SQL query to combine employee and department data with duplicates
using UNION ALL.
++
ename dname
++
*/

```
USE test;
SELECT ename, dname
FROM emp
LEFT JOIN dept ON emp.deptno = dept.deptno
UNION ALL
SELECT ename, dname
FROM emp
RIGHT JOIN dept ON emp.deptno = dept.deptno;
85.
/* Write a SQL query to list employees and their managers' names using a LEFT
JOIN for employees without managers.
+----+
| employee | manager |
+----+
*/
USE test;
SELECT e.ename AS employee, m.ename AS manager
FROM emp e
LEFT JOIN emp m ON e.mgr = m.empno;
```

86.

/* Write a SQL query to retrieve average salaries per department using INNER

JOIN and GROUP BY. +----+ | deptno | dname | avg_salary | +----+ */ USE test; SELECT d.deptno, d.dname, AVG(e.sal) AS avg_salary FROM dept d JOIN emp e ON d.deptno = e.deptno GROUP BY d.deptno, d.dname; 87. /* Write a SQL query to find departments with more than 3 employees using INNER JOIN and HAVING. +----+ | deptno | dname | emp_count | +----+ */ USE test; SELECT d.deptno, d.dname, COUNT(e.empno) AS emp_count FROM dept d

```
JOIN emp e ON d.deptno = e.deptno
GROUP BY d.deptno, d.dname
HAVING COUNT(e.empno) > 3;
88.
/* Write a SQL query to list employees and departments where the employee's
hire date is after 1980 using INNER JOIN.
+----+
| ename | dname | hiredate |
+----+
*/
USE test;
SELECT e.ename, d.dname, e.hiredate
FROM emp e
JOIN dept d ON e.deptno = d.deptno
WHERE e.hiredate > '1980-01-01';
89.
/*
Find Departments Without Employees (Using LEFT JOIN and NULL Check)
+----+
```

| Department | Location |

```
*/
USE test;
SELECT d.dname AS Department, d.location
FROM dept d
LEFT JOIN emp e ON d.deptno = e.deptno
WHERE e.empno IS NULL;
90.
/* Write a SQL query to list employee names and department names using an
implicit join, ordered by employee name.
+----+
| ename | dname |
+----+
*/
USE test;
SELECT e.ename, d.dname
FROM emp e, dept d
WHERE e.deptno = d.deptno
ORDER BY e.ename;
```

+----+