

Agenda

- Joins

Joins Practice

```
-- display ename, dname and emp dist.
SELECT e.ename, d.dname FROM emps e
INNER JOIN depts d ON e.deptno = d.deptno;

SELECT e.ename, d.dname, a.dist FROM emps e
LEFT JOIN depts d ON e.deptno = d.deptno
INNER JOIN addr a ON e.empno = a.empno;

-- display ename and his meeting topics.

SELECT e.ename, m.topic FROM emp_meeting em
INNER JOIN emps e ON em.empno = e.empno
INNER JOIN meeting m ON em.meetno = m.meetno;

-- Display name of emp, meeting topic and from where he belongs
SELECT e.ename, m.topic, a.dist, a.tal
FROM emp_meeting em
INNER JOIN emps e ON em.empno = e.empno
INNER JOIN meeting m ON em.meetno = m.meetno
INNER JOIN addr a ON e.empno = a.empno;

-- Display name of emp,meeting topic and their dept name.
SELECT e.ename, m.topic, d.dname
FROM emp_meeting em
INNER JOIN emps e ON em.empno = e.empno
INNER JOIN meeting m ON em.meetno = m.meetno
LEFT JOIN depts d ON e.deptno = d.deptno;

-- display dname and number of emps in that dept.
SELECT deptno, COUNT(empno) FROM emps
GROUP BY deptno;

SELECT d.dname, COUNT(e.empno) FROM emps e
INNER JOIN depts d ON e.deptno = d.deptno
GROUP BY d.dname;

SELECT d.dname, COUNT(e.empno) FROM emps e
RIGHT JOIN depts d ON e.deptno = d.deptno
GROUP BY d.dname;

-- display emps and their number of meetings in desc order of meeting count.
SELECT e.ename, COUNT(em.meetno)
FROM emp_meeting em
INNER JOIN emps e ON e.empno = em.empno
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GROUP BY e.ename
ORDER BY COUNT(em.meetno) DESC;

-- display all emps in DEV dept.
SELECT e.ename, d.dname FROM emps e
INNER JOIN depts d ON e.deptno = d.deptno
WHERE d.dname = 'DEV';
```

Order of clauses in queries

```
SELECT cols FROM table1
JOIN table2
WHERE condition
GROUP BY column
HAVING condition
ORDER BY column
LIMIT n;
```