1. nested query can be written in insert into statement also

INSERT INTO item (item_code, invoice_code, item_costprice)
SELECT

/* Literal number values with column aliases */
1 AS item_code,
2 AS invoice_code,
item_costprice
FROM qa_items
WHERE item_code = 1;

Joins in SQL

1. when in the output you need to get data from multiple tables, then we use joins

2. there are 3 types of joins, out of these inner join and outer join are most commonly used

	there are a types or joine, out or these miles join and outer join are most commonly used		
cross join	it combines every row of one table with every row in another table		
inner join	inner joins will always give you matching rows.		
	these are of 3 types.		
	 equi join-→ if the join condition is based on = operator then it is called as euijoin 		
	2. non equi join-→ if the join condition is based on oerator other than =		
	operator then it is called as non euijoin.		
	3. self join→ when you combine a table with itself then it is called as self		
	join		
outer join	outer join always gives you matching and non matching rows there are 3 type of outer join		
	1. left outer join-→ if you want to get non matching rows from left side		
	table the it is left outer join		
	2. right outer join-→ if you want to get nonmatching rows from right side		
	table the it is right outer join		
	3. full outer join-→ if you want to get nonmatching rows from both side		
	table the it is full outer join, to take full outer join in mysql we need to		
	take union, but in oracle we can use full join		

1. display all employees empno, ename, deptno, dname

select empno,ename,deptno,dname	select empno,ename,deptno,dname
from emp e,dept d	from emp e inner join dept d
where e.deptno=d.deptno	on e.deptno=d.deptno

2. display all employees empno, ename, sal and grade

select	
empno,ename,sal,grade,losal,hisal	select
from emp e, salgrade s where sal between losal and hisal;	empno,ename,sal,grade,losal,hisal from emp e inner join salgrade s on sal between losal and hisal;

3. display all employees empno, ename, deptno, dname who works in accounting department

select empno,ename,deptno,dname from emp e,dept d where e.deptno=d.deptno and d.dname=' accounting'; select empno,ename,deptno,dname from emp e inner join dept d on e.deptno=d.deptno where d.dname=' accounting';

4. to display all employees with department name for all employees who works as CLERK

select empno,ename,dname from emp e, dept d where e.deptno=d.deptno and job='CLERK' select empno,ename,dname from emp e inner join dept d on e.deptno=d.deptno where job='CLERK'

5. to display all employees empno, ename, dname and also display employees for whom no dept is assigned

select empno, ename, e. deptno, dname

- -> from emp e left join dept d on e.deptno=d.deptno;
- 6. to display all employees empno, ename, dname and also display departments in which no employee is assigned

select empno, ename, e. deptno, dname

- -> from emp e right join dept d on e.deptno=d.deptno;
- 7. to display all employees empno, ename, dname and also display employees who are not assigned to any department, also display all department in which no employee exists

select empno, ename, e. deptno, dname

from emp e right join dept d on e.deptno=d.deptno

union

select empno, ename, e. deptno, dname

from emp e left join dept d on e.deptno=d.deptno;

 course (cid,cname, duration,roomid,fid) faculty(fid,fname,subject) room(rid,rname,rloc)

rid	rname	rloc
100	mogra	1 st floor
101	lotus	1 st floor
102	jasmin	2 nd floor

faculty

fid	fname	subject
1	Madhura	JAVA
2	Kishori	Database
3	Srujana	.net

course

cid	cname	duration	roomid	fid
1000	DAC	4	100	1
1001	DBDA	4	101	null
1002	DTISS	6	null	null

1. display all faculties who are not assigned to any course and also display rooms which are not assigned to any course

select cname,fid,fname, null rid, null rname from course c right join faculty f on c.fid=f.fid where cname is null union select cname,null,null,rid,rname from course c right join room r on c.roomid=r.rid where cname is null

2. display cname, rname assigned to it, also display rooms which are available

select cname,rname from course c right join room r on r.rid=c.roomid;

3. display cname, fname assigned to it, also display faculties who are available

select cname,fname from course c right join faculty f on f.fid=c.fid

4. display all courses name, faculty name and rooname assigned to all courses

select cname,fname,rname	select cname,fname,rname
from courses c,faculty f, room r	from courses c inner join faculty f on
where c.roomid=r.rid and c.fid=f.fid	c.fid=f.fid inner join room r
	on c.roomid=r.rid and

5. to display cname, rname assigned to each course

_		
	select cname,rname	select cname,rname
	from course c inner join room r on	from course c , room r where
	c.roomid=r.rid	c.roomid=r.rid

6. to display cname, fname, course duration for all courses

select cname,fname,duration from course c inner join faculty f on c.fid=f.fid select cname,fname,duration from course c , faculty f where c.fid=f.fid