

```
SQL> select e.last_name,d.department_name,e.department_id
  2  from employees e,department d
  3  where e.department_id=d.department_id;
```

LAST_NAME	DEPARTMENT_NAME	DEPARTMENT_ID
prakash	Malthi	80
Prabha	Ramesh	60

```
SQL> select e.last_name,d.department_name,e.department_id
  2  from employees e join department d
  3  on e.department_id=d.department_id;
```

LAST_NAME	DEPARTMENT_NAME	DEPARTMENT_ID
prakash	Malathi	80
Prabha	Ramesh	60

```
SQL> select distinct j.job_id,d.department_id,d.location_id
  2  from employees e join job_grade j on e.job_id=j.job_id
  3  join department d on e.department_id=d.department_id
  4  where e.department_id=80;
```

JOB_ID	DEPARTMENT_ID	LOCATION_ID
98	80	600094

```
SQL> select e.last_name,d.department_name,l.location_id,l.city
  2  from employees e join department d on e.department_id=d.department_id
  3  join locations l on d.location_id=l.location_id
  4  where e.commission_pct is not null;
```

LAST_NAME	DEPARTMENT_NAME	LOCATION_ID
Prabha	Ramesh	600074
Bangalore		

```
SQL> select e.last_name,d.department_name
  2  from employees e join department d on e.department_id=d.department_id
  3  where e.last_name like 'p%';
```

LAST_NAME	DEPARTMENT_NAME
-----	-----
prakash	Malthi

```
SQL> select e.last_name,j.job,d.department_id,d.department_name
 2  from employees e join job_grade j on e.job_id=j.job_id
 3  join department d on e.department_id =d.department_id
 4  join locations l on d.location_id=l.location_id
 5  where l.city='Toronto';
```

LAST_NAME	JOB	DEPARTMENT_ID
DEPARTMENT_NAME		
Prabha	artist	60
Ramesh		
Prabha	HR_REP	60
Ramesh		

```
SQL> select e.last_name as employee,e.employee_id as "Emp#",m.last_name as Manager,  
2 m.Employee_id as "Mgr#" from employees e left join employees m on e.manager_id=m.employee_id;
```

EMPLOYEE	Emp#	MANAGER
-----	-----	-----
Mgr#		

jack	101	prakash
103		
King	102	Prabha
104		
prakash	103	

EMPLOYEE	Emp#	MANAGER
-----	-----	-----
Mgr#		

Prabha	104	
Malathi	105	

```
SQL> select e.last_name as Employee,e.employee_id as "Emp#",m.last_name as Manager,m.employee_id as "Mgr#"
  2   from employees e left join employees m on e.manager_id=m.employee_id
  3   order by e.employee_id;
```

EMPLOYEE	Emp#	MANAGER
-----	-----	-----
Mgr#		

jack	101	prakash
103		
King	102	
prakash	103	

EMPLOYEE	Emp#	MANAGER
-----	-----	-----
Mgr#		

Prabha	104	
Malathi	105	


```
SQL> desc job_grade;
```

Name	Null?	Type
JOB_ID		NUMBER(38)
DEPARTMENT_NAME		VARCHAR2(20)
SALARY		NUMBER(38)
GRADE		CHAR(1)
JOB		VARCHAR2(30)

```

SQL> select e.last_name as "Name",j.job as "job",d.department_name as "Department Name",
 2   e.salary as "Salary",
 3   j.grade as "Grade"
 4   from employees e join job_grade j on e.job_id=j.job_id join department d on e.department_id=d.department_id
 5   order by e.last_name;

```

Name	job
Prabha	HR_REP
Ramesh	40000 O
Prabha	artist
Ramesh	40000 C
prakash	executive
Malthi	25000 A

```
SQL> select e1.last_name as "Name",  
2  e1.hire_date as "Hire DATE"  
3  from employees e1  
4  join(select hire_date from employees where last_name ='Davies')e2 on e1.hire_date>e2.hire_date;  
  
no rows selected
```

```
SQL> SELECT e1.LAST_NAME AS "Employee",e1.HIRE_DATE AS "Emp Hired",e2.LAST_NAME AS "Manager",e2.HIRE_DATE AS "Mgr Hired"  
2  from employees e1 join employees e2 on e1.manager_id=e2.employee_id  
3  where e1.hire_date<e2.hire_date;
```

no rows selected