

Joins Assignment

```
use hr;
```

```
desc employees;
desc departments;
desc locations;
desc jobs;
desc job_history;
desc country_new;
```

```
#####
#####
```

#1

```
select e.first_name,e.last_name,d.department_id,d.department_name
from employees e inner join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID;
```

```
#####
#####
```

#2

```
select
e.first_name,e.last_name,d.department_id,d.department_name,l.state
from employees e inner join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID inner join locations l on
d.LOCATION_ID=l.LOCATION_ID;
```

```
#####
#####
```

#3

```
select e.first_name,e.last_name,e.salary,j.job_title from
employees e inner join jobs j on e.JOB_ID=j.JOB_ID;
```

```
#####
#####
```

#4

```
select e.first_name,e.last_name,d.department_id,d.department_name
from employees e inner join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID where d.DEPARTMENT_ID in(80,40);
```

```
#####  
#####
```

```
#5  
select e.first_name,e.last_name,d.department_id,d.department_name  
from employees e inner join departments d on  
e.DEPARTMENT_ID=d.DEPARTMENT_ID where first_name like '%z%';
```

```
#####  
#####
```

```
#6  
select e.first_name,e.last_name,d.department_id,d.department_name  
from employees e right join departments d on  
e.DEPARTMENT_ID=d.DEPARTMENT_ID;
```

```
#####  
#####
```

```
#7  
select first_name,last_name,salary from employees where salary <  
(select salary from employees where EMPLOYEE_ID=182);
```

```
#####  
#####
```

```
#8  
#select first_name,first_name from employees group by  
MANAGER_ID,EMPLOYEE_ID;  
select e.FIRST_NAME,e.FIRST_NAME from employees e inner join jobs  
j on j.JOB_ID=e.JOB_ID where JOB_TITLE like '%manager%';
```

```
#####  
#####
```

```
#9  
select d.department_name,l.state,l.COUNTRY_ID from departments d  
inner join locations l on l.LOCATION_ID=d.LOCATION_ID;
```

```
#####  
#####
```

```
#10
select e.first_name,e.last_name,d.department_id,d.department_name
from employees e left join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID;
```

```
#####
#####
```

```
#11
select e.first_name,e.first_name from employees e inner join jobs
j on e.JOB_ID=j.JOB_ID where j.JOB_TITLE like '%manager%';
```

```
#####
#####
```

```
#12
select first_name,last_name,department_id from employees where
DEPARTMENT_ID in (select DEPARTMENT_ID from employees where
LAST_NAME like 'Taylor');
```

```
#####
#####
```

```
#13
select j.job_title,d.department_name,concat(e.first_name,'
',e.last_name) as employee_name,e.hire_date from departments d
inner join employees e on d.DEPARTMENT_ID=e.DEPARTMENT_ID inner
join jobs j on e.JOB_ID=j.JOB_ID where e.HIRE_DATE between
'1993-01-01' and '1997-08-31';
```

```
select j.job_title,d.department_name,concat(e.first_name,'
',e.last_name) as employee_name,e.hire_date from departments d
inner join employees e on d.DEPARTMENT_ID=e.DEPARTMENT_ID inner
join jobs j on e.JOB_ID=j.JOB_ID where e.HIRE_DATE between
'1987-06-17' and '1987-07-03';
select * from employees;
```

```
#####
#####
```

```
#14
select j.job_title,concat(e.first_name,' ',e.last_name) as
employee_name,e.salary,j.max_salary,(j.max_salary-e.salary) as
```

```
diff_sal from employees e inner join jobs j on e.JOB_ID=j.JOB_ID;
```

```
#####  
#####
```

```
#15
```

```
select d.department_name,avg(e.salary),count(e.employee_id) from  
employees e inner join departments d on  
e.DEPARTMENT_ID=d.DEPARTMENT_ID where e.COMMISSION_PCT is not null  
group by d.DEPARTMENT_ID;
```

```
#select d.department_name,avg(e.salary),count(e.employee_id) from  
employees e inner join departments d on  
e.DEPARTMENT_ID=d.DEPARTMENT_ID where e.COMMISSION_PCT is not null  
group by e.EMPLOYEE_ID;
```

```
#select d.department_name,avg(e.salary),count(e.employee_id) as  
no_of_emp from employees e inner join departments d on  
e.DEPARTMENT_ID=d.DEPARTMENT_ID group by d.DEPARTMENT_ID having  
no_of_emp in (select employee_id from employees where  
COMMISSION_PCT is not null);
```

```
#####  
#####
```

```
#16
```

```
select j.job_title, concat(e.first_name,' ',e.last_name) as  
employee_name, (j.max_salary-e.salary) as diff_sal from jobs j  
inner join employees e on j.JOB_ID=e.JOB_ID inner join departments  
d on e.DEPARTMENT_ID=d.DEPARTMENT_ID where d.DEPARTMENT_ID=80;
```

```
#####  
#####
```

```
#17
```

```
select c.country_name,l.state,d.department_name from departments  
d inner join locations l on d.LOCATION_ID=l.LOCATION_ID inner join  
country_new c on c.COUNTRY_ID=l.COUNTRY_ID;
```

```
#select c.country_name,l.state,d.department_name from departments  
d inner join locations l on d.LOCATION_ID=l.LOCATION_ID inner join  
country_new c on c.COUNTRY_ID=l.COUNTRY_ID where  
d.DEPARTMENT_ID=80;
```

```
#####
```

#####

#18

```
select d.department_name,concat(e.first_name,' ',e.last_name) as
employee_name from departments d inner join employees e on
d.DEPARTMENT_ID=d.DEPARTMENT_ID inner join jobs j on
e.JOB_ID=j.JOB_ID where j.JOB_TITLE like '%manager%';
```

```
select d.department_name,concat(e.first_name,'
',e.last_name),j.JOB_TITLE as employee_name from departments d
inner join employees e on d.DEPARTMENT_ID=d.DEPARTMENT_ID inner
join jobs j on e.JOB_ID=j.JOB_ID where j.JOB_TITLE like
'%manager%';
```

#####

#19

```
select avg(e.salary) as avg_sal, j.job_title from employees e
inner join jobs j on e.JOB_ID=j.JOB_ID group by j.JOB_TITLE;
```

#####

#20

```
select
e.employee_id,jh.start_date,jh.end_date,e.job_id,e.department_id,s
alary from employees e inner join job_history jh on
e.EMPLOYEE_ID=jh.EMPLOYEE_ID where e.salary>=12000;
```

#####

#21

/*

```
select c.country_name,l.state,count(d.department_id) from
employees e inner join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID inner join locations l on
d.LOCATION_ID=l.LOCATION_ID inner join country_new c on
c.COUNTRY_ID=l.COUNTRY_ID group by
e.DEPARTMENT_ID,c.COUNTRY_NAME,l.state having
count(e.EMPLOYEE_ID)>2;
```

```
select c.country_name,l.state,count(d.department_id) from
employees e inner join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID inner join locations l on
```

```

d.LOCATION_ID=l.LOCATION_ID inner join country_new c on
c.COUNTRY_ID=l.COUNTRY_ID group by e.DEPARTMENT_ID having
count(e.EMPLOYEE_ID)>2;
select c.country_name,l.state,count(d.department_id) from
employees e inner join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID inner join locations l on
d.LOCATION_ID=l.LOCATION_ID inner join country_new c on
c.COUNTRY_ID=l.COUNTRY_ID where e.EMPLOYEE_ID in (select
department_id,count(employee_id) as tot_emp from employees group
by department_id having tot_emp>2) group by
e.DEPARTMENT_ID,c.COUNTRY_NAME,l.state;
#select count(department_id),count(employee_id) as tot_emp from
employees group by department_id having tot_emp>2;
#select c.country_name,l.state,count(d.department_id) from
employees e inner join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID inner join locations l on
d.LOCATION_ID=l.LOCATION_ID inner join country_new c on
c.COUNTRY_ID=l.COUNTRY_ID group by e.DEPARTMENT_ID having
count(e.EMPLOYEE_ID)>2;
*/
select department_id,count(employee_id) as tot_emp from employees
group by department_id having tot_emp>2;
select c.country_name,l.state,d.department_id from employees e
inner join departments d on e.DEPARTMENT_ID=d.DEPARTMENT_ID inner
join locations l on d.LOCATION_ID=l.LOCATION_ID inner join
country_new c on c.COUNTRY_ID=l.COUNTRY_ID group by
e.DEPARTMENT_ID having count(e.EMPLOYEE_ID)>2;

#select c.country_name,l.state,count(d.DEPARTMENT_ID) from
country_new c inner join locations l on c.COUNTRY_ID=l.COUNTRY_ID
inner join departments d on inner join employees e on
e.DEPARTMENT_ID=d.DEPARTMENT_ID inner join locations l on
d.LOCATION_ID=l.LOCATION_ID inner join country_new c on
c.COUNTRY_ID=l.COUNTRY_ID where e.DEPARTMENT_ID in (select
e.department_id from employees group by e.department_id having
count(e.EMPLOYEE_ID)>2) group by c.country_name,l.state;

#####
#####

#22
select d.department_name,concat(e.first_name,' ',e.last_name) as
employee_name,l.state,j.job_title from jobs j inner join employees
e on j.JOB_ID=e.JOB_ID inner join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID inner join locations l on
l.LOCATION_ID=d.LOCATION_ID where j.JOB_TITLE like '%manager%';

```

```
#####  
#####
```

```
#23  
#select  
e.employee_id,j.job_title,timestampdiff(day,curdate(),e.hire_date)  
as days_work from employees e inner join jobs j on  
e.JOB_ID=j.JOB_ID where DEPARTMENT_ID=80;  
select  
e.employee_id,j.job_title,timestampdiff(day,hire_date,curdate())  
as days_worked from employees e inner join jobs j on  
e.JOB_ID=j.JOB_ID where DEPARTMENT_ID=80;
```

```
#####  
#####
```

```
#24  
#select * from country_new;  
#select concat(e.first_name,' ',e.last_name) as employee_name,  
e.salary,d.DEPARTMENT_ID from employees e inner join departments d  
on e.DEPARTMENT_ID=d.DEPARTMENT_ID inner join locations l on  
d.LOCATION_ID=l.LOCATION_ID inner join country_new c on  
l.COUNTRY_ID=c.COUNTRY_ID where COUNTRY_NAME='Japan' group by  
d.DEPARTMENT_ID;  
select concat(e.first_name,' ',e.last_name) as employee_name,  
e.salary,d.DEPARTMENT_ID from employees e inner join departments d  
on e.DEPARTMENT_ID=d.DEPARTMENT_ID inner join locations l on  
d.LOCATION_ID=l.LOCATION_ID inner join country_new c on  
l.COUNTRY_ID=c.COUNTRY_ID where COUNTRY_NAME='Germany';  
  
select concat(e.first_name,' ',e.last_name) as employee_name,  
e.salary from employees e inner join departments d on  
e.DEPARTMENT_ID=d.DEPARTMENT_ID inner join locations l on  
d.LOCATION_ID=l.LOCATION_ID inner join country_new c on  
l.COUNTRY_ID=c.COUNTRY_ID where d.department_id in (select  
d.DEPARTMENT_ID from departments where c.COUNTRY_NAME='Germany');
```

```
#####  
#####
```

```
#25  
select first_name from employees where COMMISSION_PCT is null;  
select COMMISSION_PCT from employees;  
select concat(e.first_name,' ',e.last_name) as  
employee_name,j.job_title,jh.start_date,jh.end_date from employees
```

```
e inner join jobs j on e.JOB_ID=j.JOB_ID inner join job_history jh
on j.JOB_ID=jh.JOB_ID where e.COMMISSION_PCT=00.00;
```

```
#####
#####
```

```
#26
/*
select department_name,department_id,count(employee_id) as
tot_emp from employees group by department_id;
select DEPARTMENT_ID,count(employee_id) from employees group by
DEPARTMENT_ID;
select d.department_name,d.department_id,count(e.employee_id) as
tot_emp from employees e inner join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID where e.EMPLOYEE_ID in (select
count(employee_id) from employees group by DEPARTMENT_ID) group by
d.department_id,d.DEPARTMENT_NAME;
select d.department_name,d.department_id,e.employee_id from
employees e inner join departments d where e.EMPLOYEE_ID in
(select count(employee_id) from employees group by DEPARTMENT_ID);

select d.department_name,d.department_id,e.employee_id from
employees e inner join departments d where e.EMPLOYEE_ID in
(select count(employee_id) from employees group by DEPARTMENT_ID);

# write a SQL query to find the department name, department ID,
and number of employees in each department.
```

```
select d.department_name,d.department_id from employees e inner
join departments d where e.EMPLOYEE_ID in (select
count(employee_id) from employees group by DEPARTMENT_ID);
*/
select d.department_name,d.department_id,count(e.employee_id) as
tot_emp from employees e inner join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID group by
d.department_id,d.DEPARTMENT_NAME;
select d.department_name,d.department_id,count(e.employee_id) as
tot_emp from employees e inner join departments d on
e.DEPARTMENT_ID=d.DEPARTMENT_ID group by d.department_id;
```

```
#####
#####
```

```
#27
select concat(e.first_name,' ',e.last_name) as
employee_name,e.employee_id,c.country_name from employees e inner
```



```
join departments d on e.DEPARTMENT_ID=d.DEPARTMENT_ID inner join  
locations l on d.LOCATION_ID=l.LOCATION_ID inner join country_new  
c on l.COUNTRY_ID=c.COUNTRY_ID;
```