

## Window functions and Joins

```
desc locations;  
desc employees;
```

--1

```
select * from employees;  
  
select first_name,  
       last_name,  
       salary,  
       job_id,  
       row_number () over (partition by job_id order by salary desc) as yeni  
from employees;
```

--2

```
select e.first_name,  
       e.last_name,  
       l.country_id,  
       min(e.hire_date) over (partition by l.country_id order by e.hire_date ) as  
first_hire_date,  
       first_value (e.last_name) over (partition by l.country_id ) as yeni2  
from employees e inner join departments d  
on e.department_id=d.department_id  
join locations l  
on d.location_id=l.location_id;
```

--3

```
select e.first_name,  
       e.last_name,  
       e.hire_date,  
       l.country_id,  
       first_value (e.hire_date) over (partition by l.country_id order by e.hire_date)  
as yeni,  
       first_value (e.last_name) over (partition by l.country_id ) as yeni3  
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;
```

```
select e.first_name,  
       e.last_name,
```

```

        l.country_id,
        min(e.hire_date) over (partition by l.country_id order by e.hire_date ) as
first_hire_date,
        first_value (e.last_name) over (partition by l.country_id ) as yeni2
from employees e inner join departments d
on e.department_id=d.department_id
join locations l
on d.location_id=l.location_id;

```

--4

```

select el.employee_id,
       el.first_name,
       el.salary,
       count(distinct e2.salary) as small_salary
from employees el left join employees e2
on el.salary<e2.salary
group by el.employee_id,
         el.first_name,
         el.salary;

```

--JOIN

--1

```

select e.first_name,
       e.last_name,
       j.start_date,
       j.end_date,
       j.job_id
from employees e inner join job_history j
on e.employee_id=j.employee_id;

```

--2

```

select e.first_name,
       e.last_name,
       e.salary,
       j.start_date,
       j.end_date,
       j.job_id
from employees e inner join job_history j
on e.employee_id=j.employee_id
where j.job_id in ('ST_CLERK','AC_ACCOUNT')
ORDER BY e.salary desc;

```

--3

```
select e.first_name,
       e.last_name,
       j.start_date,
       j.end_date,
       j.job_id,
       d.department_name
from employees e inner join departments d
on e.department_id=d.department_id inner join
job_history j
on d.department_id=j.department_id
where j.job_id in ('ST_CLERK', 'AC_ACCOUNT')
ORDER BY e.salary desc;
```

--4

```
select e.first_name,o
       e.last_name,
       e.salary,
       l.city,
       l.street_address,
       d.department_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
where d.department_name='Executive'
order by salary desc;
```

--5

```
select d.department_name,
       l.city,
       l.country_id,
       l.street_address
from departments d inner join locations l
on d.location_id =l.location_id;
```

--6

```
select e.first_name,
       e.last_name,
       j.start_date,
       j.end_date
from employees e left join job_history j
on e.employee_id=j.employee_id;
```

--cunki left join ilk hansı cedvel yazmısiqsa onu butunlukle getirir on hisseye yazdigimiz beraberliye esasen diger cedvelde uygun setrleri axtarir.  
--null olan setrlerin employee\_id gore start ve end\_date tarixleri diger cedvelde olmayib.

--7

```
select d.department_id,  
       d.department_name,  
       l.location_id,  
       l.city  
from departments d right join locations l  
on d.location_id=l.location_id  
order by d.department_id desc;  
-- 43 setr
```

--inner

```
select d.department_id,  
       d.department_name,  
       l.location_id,  
       l.city  
from departments d inner join locations l  
on d.location_id=l.location_id  
order by d.department_id desc;  
-- 27
```

--left

```
select d.department_id,  
       d.department_name,  
       l.location_id,  
       l.city  
from departments d left join locations l  
on d.location_id=l.location_id  
order by d.department_id desc;  
--27 setr
```

--full

```
select d.department_id,  
       d.department_name,  
       l.location_id,  
       l.city  
from departments d full join locations l  
on d.location_id=l.location_id  
order by d.department_id desc;  
--43 setr
```

--8

```
select e.first_name,  
       e.last_name,  
       d.department_name,  
       nvl(d.department_name, 'xxx')  
from employees e left join departments d  
on e.department_id=d.department_id;
```

--10

```
select e.first_name as employee_name,  
       m.first_name as manager_name,  
       e.hire_date as emp_hire_date,  
       m.hire_date as manager_hire_date  
from employees e join employees m  
on e.manager_id=m.employee_id  
where e.hire_date < m.hire_date;
```

```
select * from departments;  
select * from locations;
```

```
select * from locations;  
select * from employees;  
desc JOB_HISTORY;  
select * from job_history;
```