ismi h ile başlayanlar

```
SELECT * FROM EMPLOYEES
where first_name like'H%'
```

ikinci harfi a olanlar

```
select first_name from employees
where first_name like '_a%'
```

Query Result | SQL | All Rows Fetched: 32 in 0.002 seconds

	FIRST_NAME
1	David
2	Sarah
3	David
4	Laura
5	Harrison

---

concanating ve takma isim

```
select first_name || '    '|| last_name fullname from employees
```

Query Result | SQL | Fetched 50 rows in 0.004 seconds

	FULLNAME
1	Ellen Abel
2	Sundar Ande
3	Mozhe Atkinson
4	David Austin
5	Hermann Baer

matematik işlemler

```
select salary ,salary +10 zamli from employees
```

Query Result | SQL | Fetched 50 rows in 0.007 seconds

	SALARY	ZAMLI
1	24000	24010
2	17000	17010
3	17000	17010
4	9000	9010
5	6000	6010
6	4800	4810

escape kullanımı

```
select first_name from employees
where first_name like '_a/%' ESCAPE '/'
```

Query Result | SQL | All Rows Fetched: 0 in 0.002 seconds

	FIRST_N...

dual tablosu

```
select sysdate from dual
```

Query Result | SQL | All Rows Fetched: 1 in 0.002 seconds

	SYSDATE
1	29-OCT-18

```
select '__a/%'  from dual
```

Query Result | SQL | All Rows Fetched: 1 in 0.002 seconds

	'__A/%'
1	__a/%

```
select 'Ahmet''ak'  from dual
```

Query Result | SQL | All Rows Fetched: 1 in 0.002 seconds

	'AHMET''AK'
1	Ahmet'ak

```
select 'Ahmetak'''  from dual
```

Query Result | SQL | All Rows Fetched: 1 in 0.003 seconds

	'AHMETAK'''
1	Ahmetak'

```
select * from employees
where salary between 6000 and 7000
```

Query Result | SQL | All Rows Fetched: 13 in 0.004 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSI
1	104	Bruce	Ernst	BERNST	590.423.4568	21-MAY-07	IT_PROG	6000	(
2	113	Luis	Popp	LPOPP	515.124.4567	07-DEC-07	FI_ACCOUNT	6900	(
3	123	Shanta	Vollman	SVOLLMAN	650.123.4234	10-OCT-05	ST_MAN	6500	(
4	155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	23-NOV-07	SA_REP	7000	
5	161	Sarath	Sewall	SSEWALL	011.44.1345.529268	03-NOV-06	SA_REP	7000	

between de sınırların ikisi dahil

Hiç bir şey nulla eşit değil

```
select * from employees
where commission_pct=null
```

Query Result | SQL | All Rows Fetched: 0 in 0.003 seconds

EMPLOY...	FIRST_N...	LAST_NA...	EMAIL	PHONE_...

çözüm

```
select * from employees
where commission_pct is null
```

Query Result | SQL | Fetched 50 rows in 0.014 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	100	Steven	King	SKING	515.123.4567	17-JUN-03	AD_PRES	24000	(null)	(null)	90
2	101	Neena	Kochhar	NKOCHHAR	515.123.4568	21-SEP-05	AD_VP	17000	(null)	100	90
3	102	Lex	De Haan	LDEHAAN	515.123.4569	13-JAN-01	AD_VP	17000	(null)	100	90
4	103	Alexander	Hunold	AHUNOLD	590.423.4567	03-JAN-06	IT_PROG	9000	(null)	102	60
5	104	Bruce	Ernst	BERNST	590.423.4568	21-MAY-07	IT_PROG	6000	(null)	103	60

null ise yerine olacak değer
matematik işlemlerde kesinlikle kullanılmalı

```
select commission_pct, NVL(commission_pct,0) from employees
```

Query Result

SQL | All Rows Fetched: 107 in 0.013 seconds

	COMMISSION_PCT	NVL(COMMISSION_PCT,0)
1	(null)	0
2	(null)	0

en yüksek ortalama maaş sahip olan birim

```
select * from
(select department_id, avg(salary) ort
from employees
GROUP BY department_id
order by ort desc)
where ROWNUM=1
```

Query Result

SQL | All Rows Fetched: 1 in 0.097 seconds

	DEPARTMENT_ID	ORT
1	90	19333.333333333333333333333333333333333

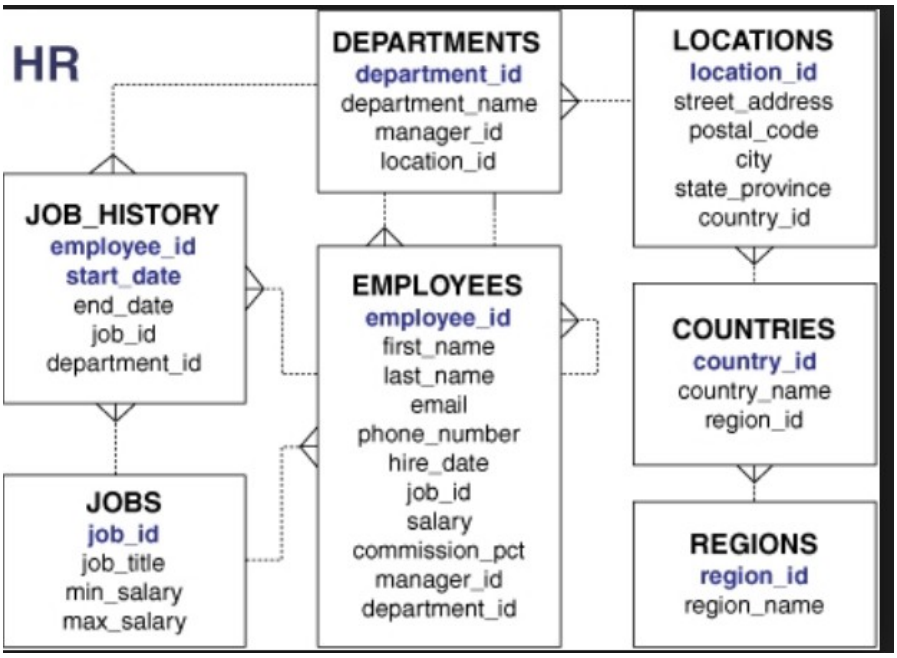
ortalaması 500 den büyük olan birimlerin isimleri

```
select department_id, avg(salary) ort
from employees
GROUP BY department_id
having avg(salary)>5000
```

Query Result

SQL | All Rows Fetched: 9 in 0.11 seconds

	DEPARTMENT_ID	ORT
1	100	8601.333333333333333333333333333333333333
2	(null)	7000
3	90	19333.333333333333333333333333333333333333
4	20	9500
5	70	10000
6	110	10154
7	80	8955.882352941176470588235294117647058824
8	40	6500
9	60	5760



90 nolu birimde çalışan unvanların maaşı
not sadece order by de takma isimleri kullanılabilir

```
select job_id, avg(salary) ort
from employees
where department_id=90
GROUP BY job_id
order by ort
```

ery Result ×
SQL | All Rows Fetched: 2 in 0.104 seconds

	JOB_ID	ORT
1	AD_VP	17000
2	AD_PRES	24000

1700 nolu loaction idli departmentlerde çalışan kişiler

```
select * from employees
where department_id in
        (
        select department_id
        from departments
        where location_id=1700)
```

ortalama maaşten yüksek maaşı alan kişiler

```
select * from employees ust
where salary >
        (
        select avg (salary)
        from employees alt
        where alt.department_id=ust.department_id
        )
```

```
select * from employees
where salary >
        (
        select avg(salary)
        from employees
        )
```

yönettiği kişilerin herhangi biriyle aynı maaş alan kişiler ??? sorunlu

```
select * from employees ust
where salary  in
        (
        select salary
        from employees alt
        where alt.manager_id=ust.employee_id
        )
```

kendi birimi haricindeki çalışan kişileri yöneten yöneticileri bulunuz

```
select * from employees ust
where ust.employee_id  in
        (
        select manager_id
        from employees alt
        where alt.department_id !=alt.department_id
        )
```

```
select *
from employees ust
where exists
(
select 'a' from employees alt
where ust.employee_id=alt.manager_id
and ust.department_id!=alt.department_id)
```

Americas bölgesinde çalışan kişiler

```
select * from employees where   department_id in
    (select department_id from departments
    where  location_id in
       (select location_id from locations
       where country_id in
           (select country_id from countries
           where region_id =
                   (
                   select region_id
                   from regions
                   where region_name='Americas'
                   ))))
```

tüm kişiler ve çalıştığı departmentlerin isimleri yan yana gösteriniz

```
Worksheet  Query Builder
select e.first_name,
(select department_name
from departments d
where d.department_id = e.department_id ) depName
from employees e
```

Query Result

SQL | Fetched 50 rows in 0.005 seconds

	FIRST_NAME	DEPNAME
1	Steven	Executive
2	Neena	Executive
3	Lex	Executive
4	Alexander	IT

en yüksek maaş sahip birimin ortalama maaşi

```
select * from
    (select  avg(Salary) ort
    from employees
    GROUP by department_id
    order by ort desc)
where rownum=1
```

Query Result

SQL | All Rows Fetched: 1 in 0.096 seconds

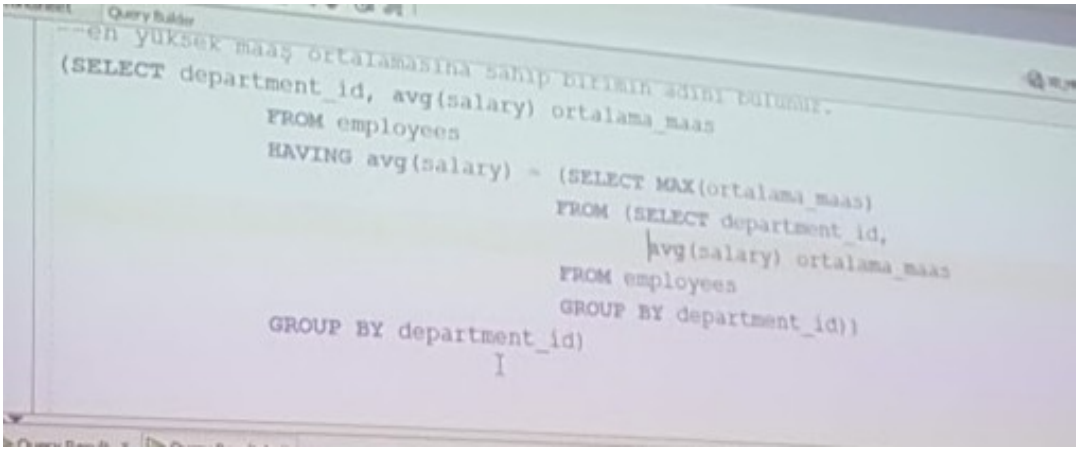
	DEPARTMENT_ID	ORT
1	90	19333.333333333333333333333333333333333

```
select max(ort) from
    (select  avg(Salary) ort
    from employees
    GROUP by department_id
    )
```

Query Result

SQL | All Rows Fetched: 1 in 0.082 seconds

	MAX(ORT)
1	19333.333333333333333333333333333333333



```
select *from   employees where  employee_id in
    (select  employee_id
    from job_history
    where job_id='SA_REP'
    )
```

Query Result

SQL | All Rows Fetched: 1 in 0.006 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	CO
1	176	Jonathon	Taylor	JTAYLOR	011.44.1644.429265	24-MAR-06	SA_REP	8600	

birden fazla birim olan yerlerin isimlerini bulunuz
önemli not count(*)alt sorguda göstermesem groub by yaptığım için having de kullanabilirim

```
select * from   locations where  location_id in
        (select  location_id
        from departments
        group by location_id
        having count(*)>1
        )
```

Query Result

SQL | All Rows Fetched: 1 in 0.094 seconds

	LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY	STATE_PROVINCE	COUNTRY_ID
1	1700	2004 Charade Rd	98199	Seattle	Washington	US

hiç iş değiştermeyan personelleri bulunuz

```
select * from   employees where  employee_id not  in
        (select  employee_id
        from job_history
        )
```

```
select *
from employees e where not exists
(select 'a' from JOB_HISTORY j where e.employee_id=j.employee_id)
```

en yüksek maaş alan personel

```
select * from   employees where  salary=
        (select  max(salary)
        from employees
        )
```

Query Result

SQL | All Rows Fetched: 1 in 0.002 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
1	100	Steven	King	SKING	515.123.4567	17-JUN-03	AD_PRES	24000

maaş ortalaması 5000 den fazlan olan birimler

```
    (select  department_id ,avg(salary) ort
    from employees
    group by department_id
    having avg(salary)>5000
    )
```

1700 nolu mekanda çalışan ve ‘Stock Manager ’ unvanlı kişiler

```
select * from employees where
    department_id in (select department_id from departments  where location_id=1700)
    and
    job_id in (select job_id from jobs where job_title='Stock Manager')
```

kendi unvan maaş sınırları dışında maaş alan kişileri bulunuz
my answer need checking

```
select * from employees e
where salary not between
(select min_salary from jobs j
where e.job_id= j.job_id )
and
(select max_salary from jobs j2
where e.job_id= j2.job_id )
```

```
select  *
from employees e ,JOBS j
where  e.job_id=j.job_id
and e.salary between j.min_salary and j.max_salary
```

kendi biriminde kendi unvanında başka çalışan olmaya kişiler bulunuz

adım1

```
select department_id, job_id ,count(*)
from employees
group by department_id, job_id
```

Query Result

SQL | All Rows Fetched: 20 in 0.091 seconds

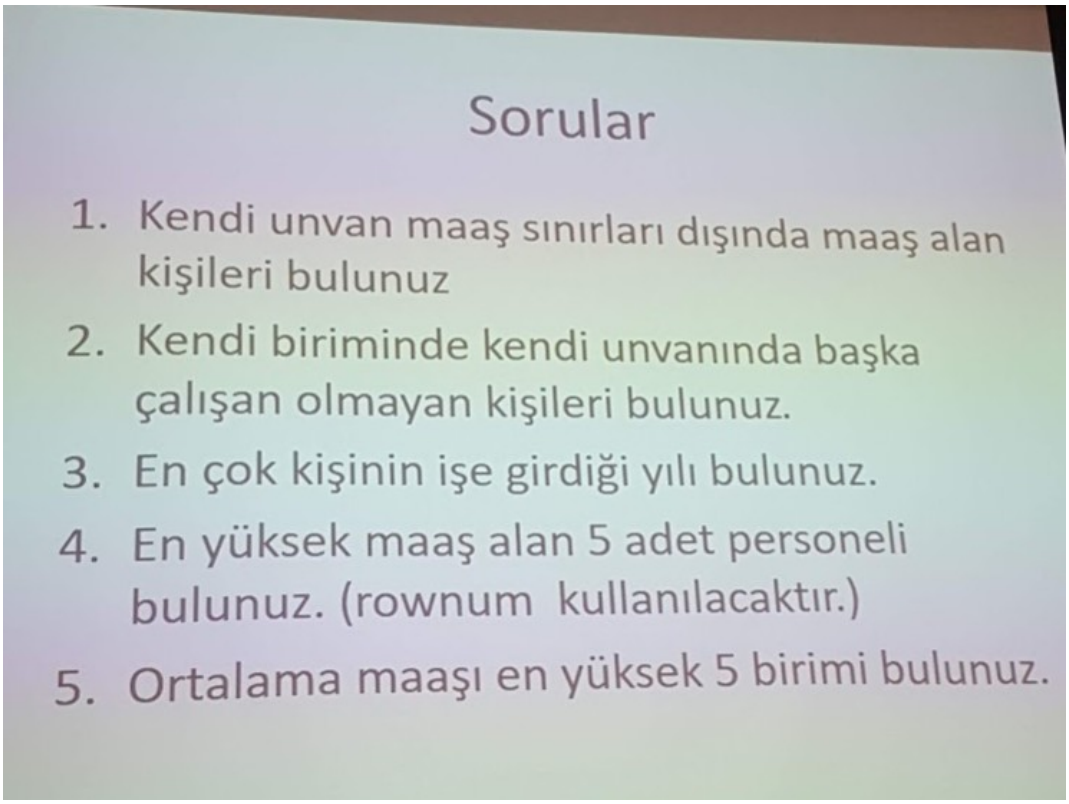
	DEPARTMENT_ID	JOB_ID	COUNT(*)
1	110	AC_ACCOUNT	1
2	90	AD_VP	2
3	50	ST_CLERK	20
4	80	SA_REP	29
5	50	ST_MAN	5
6	80	SA_MAN	5
7	110	AC_MGR	1
8	90	AD_PRES	1
9	60	IT_PROG	5
10	100	FI_MGR	1
11	30	PU_CLERK	5
12	50	SH_CLERK	20
13	20	MK_MAN	1
14	100	FI_ACCOUNT	5
15	(null)	SA_REP	1

```
select * from employees where
(department_id, job_id )in
(select department_id, job_id
from employees
group by department_id, job_id
having count(*)=1)
```

Query Result

SQL | All Rows Fetched: 10 in 0.085 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID
1	206	William	Gietz	WGIETZ	515.123.8181	07-JUN-02	AC_ACCOUNT	8300	(null)	205
2	205	Shelley	Higgins	SHIGGINS	515.123.8080	07-JUN-02	AC_MGR	12008	(null)	101
3	100	Steven	King	SKING	515.123.4567	17-JUN-03	AD_PRES	24000	(null)	(null)
4	108	Nancy	Greenberg	NGREENBE	515.124.4569	17-AUG-02	FI_MGR	12008	(null)	101
5	201	Michael	Hartstein	MHARTSTE	515.123.5555	17-FEB-04	MK_MAN	13000	(null)	100
6	204	Hermann	Baer	HBAER	515.123.8888	07-JUN-02	PR_REP	10000	(null)	101
7	114	Den	Raphaely	DRAPHEAL	515.127.4561	07-DEC-02	PU_MAN	11000	(null)	100
8	200	Jennifer	Whalen	JWHALEN	515.123.4444	17-SEP-03	AD_ASST	4400	(null)	101
9	202	Pat	Fay	PFAY	603.123.6666	17-AUG-05	MK_REP	6000	(null)	201
10	203	Susan	Mavris	SMAVRIS	515.123.7777	07-JUN-02	HR_REP	6500	(null)	101



3

```
select * from (
   select to_char(hire_date,'YYYY'),count(*)
   from employees
   group by to_char(hire_date,'YYYY')
   order by count(*) desc)
where rownum =1
```

```
 -- maaşları birim  unvan ortlamasında yuksekse
 --yuzde on artır değilse yuzde yirmi artır

 update personel ust
  set salary =
case when   salary >(
 select avg(salary)
 from personel alt
 where ust.department_id= alt.department_id
 and ust.job_id= alt.job_id) then salary+0.1*salary
else salary+0.2*salary
end
```