

## 2.ÖDEV

### SQL Sorguları

1.a)

School on postgres@PostgreSQL 11					
1	<b>Alter table</b> ogrenci <b>add</b> birthdate <b>integer</b> ;				
2	<b>select * from</b> ogrenci;				
Data Output Explain Messages Notifications Query History					
	ogrenci_no integer	adi character varying (30)	dogum_yeri character varying (30)	bolum_no integer	birthdate integer
1	1	Ayşe Yıldız	İzmir	6	[null]
2	2	Aysel Demir	Kastamonu	6	[null]
3	3	Murat Kara	Ankara	6	[null]
4	4	Mete Koç	Kırklareli	7	[null]
5	5	Yılmaz Gürel	Kocaeli	7	[null]
6	6	Ezgi Birdal	Muş	5	[null]
7	7	Yağmur Akar	Tekirdağ	5	[null]
8	8	Pelin Sağlam	Tokat	5	[null]
9	9	Batuhan Özdemir	Antalya	8	[null]
10	10	Sevgi Demirel	Erzincan	8	[null]
11	[null]	Ali Kurt	Samsun	5	[null]
12	[null]	Ali Kurt	Samsun	5	[null]
13	[null]	Ali Kurt	Samsun	5	[null]

b)

School on postgres@PostgreSQL 11					
1	<b>insert into</b> ogrenci(adi,dogum_yeri,bolum_no) <b>values</b> ('Ali Kurt','Samsun','5');				
2	<b>select distinct * from</b> ogrenci;				
Data Output Explain Messages Notifications Query History					
	ogrenci_no integer	adi character varying (30)	dogum_yeri character varying (30)	bolum_no integer	birthdate integer
1	8	Pelin Sağlam	Tokat	5	[null]
2	3	Murat Kara	Ankara	6	[null]
3	7	Yağmur Akar	Tekirdağ	5	[null]
4	5	Yılmaz Gürel	Kocaeli	7	[null]
5	2	Aysel Demir	Kastamonu	6	[null]
6	1	Ayşe Yıldız	İzmir	6	[null]
7	4	Mete Koç	Kırklareli	7	[null]
8	9	Batuhan Özdemir	Antalya	8	[null]
9	10	Sevgi Demirel	Erzincan	8	[null]
10	[null]	Ali Kurt	Samsun	5	[null]
11	6	Ezgi Birdal	Muş	5	[null]

c)

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```
1 delete from bolum where bolum_no not in (select bolum_no from ogrenci where bolum.bolum_no=ogrenci.bolum_no);
2 select * from bolum;
```

Data Output Explain Messages Notifications Query History

	bolum_no integer	adi character varying (30)
1	5	Endüstri Mühendisliği
2	6	Bilgisayar Mühendisliği
3	7	Makine Mühendisliği
4	8	Elektrik Elektronik Mühen...

d)

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```
1 update ders set kredisi =kredisi+1 where ders_kodu in (select ders_kodu from ders_al group by ders_kodu having count(ogrenci_no)>=10);
2
3
```

Data Output Explain Messages Notifications Query History

UPDATE 0

Query returned successfully in 1 secs 808 msec.

2)

School on postgres@PostgreSQL 11

```
1 select notu,count(ogrenci_no) from ders_al group by notu having avg(notu)>50;
2
```

Data Output Explain Messages Notifications Query History

	notu integer	count bigint
1	56	1
2	90	1
3	89	1
4	87	1
5	76	1
6	74	1
7	65	1

3)

```
School on postgres@PostgreSQL 11
1 |select ogrenci |from ogrenci,ders_al where notu>=all(select notu from ogrenci,ders_al where adi='Ali Kurt')
```

Data Output Explain Messages Notifications Query History

Successfully run. Total query runtime: 2 secs 441 msec.  
3 rows affected.

4)

```
School on postgres@PostgreSQL 11
1 |(select o.ogrenci_no,o.adi,o.dogum_yeri,o.bolum_no from ders s,ders_al l,ogrenci o
2 |where s.ders_kodu=l.ders_kodu and o.ogrenci_no=l.ogrenci_no and s.adi='Database Systems')
3 |except
4 |(select o.ogrenci_no,o.adi,o.dogum_yeri,o.bolum_no from ders s,ders_al l,ogrenci o
5 |where s.ders_kodu=l.ders_kodu and o.ogrenci_no=l.ogrenci_no and s.adi='Database Systems' and s.adi='Operating Systems');
```

Data Output Explain Messages Notifications Query History

	ogrenci_no integer	adi character varying (30)	dogum_yeri character varying (30)	bolum_no integer
1	5	Yilmaz Gürel	Kocaeli	7

5)b)

```
School on postgres@PostgreSQL 11
1 |select hoca from hoca where
2 |exists
3 |((select hoca from hoca where bolum_no='6') except
4 |(select hoca from ders_ver,hoca where ders_ver.hoca_no=hoca.hoca_no and bolum_no ='6'));
```

Data Output Explain Messages Notifications Query History

Successfully run. Total query runtime: 2 secs 99 msec.  
8 rows affected.

c)

```
School on postgres@PostgreSQL 11
1 |select hoca from hoca where bolum_no in((select * from hoca,ders_ver where ders_ver.hoca_no=hoca.hoca_no and bolum_no='6' ) except
2 |(select * from hoca,ders_ver where ders_ver.hoca_no=hoca.hoca_no and bolum_no!='6' ));
```

Data Output Explain Messages Notifications Query History

ERROR: HATA: subquery çok fazla sütuna sahip  
LINE 1: select hoca from hoca where bolum\_no in((select \* from hoca,...  
^

SQL state: 42601  
Character: 38