

Basic Sql Practice - 1

Create Table:

sql_practice/postgres@PostgreSQL 15

Query Query History

```

1 create table ogrenciler (
2 id integer primary key,
3 isim varchar(50),
4 adres varchar(100),
5 sinav_notu integer
6 );
7 insert into ogrenciler values(1,'Betül Koyuncu','İstanbul',80);
8 insert into ogrenciler(id,isim,adres,sinav_notu) values
9 (2,'Zeki Demir','İzmir',90),
10 (3,'Cemal Doğan', 'Trabzon',100),
11 (4,'Nazlı Nazan AVCI','Aksaray',95),
12 (5,'Miraç Demir', 'Bursa',65),
13 (6,'Yavuz BAL','Antalya',55);
14
15 select * from ogrenciler;

```

Data Output Messages Notifications

	id [PK] integer	isim character varying (50)	adres character varying (100)	sinav_notu integer
1	1	Betül Koyuncu	İstanbul	80
2	2	Zeki Demir	İzmir	90
3	3	Cemal Doğan	Trabzon	100
4	4	Nazlı Nazan AVCI	Aksaray	95
5	5	Miraç Demir	Bursa	65
6	6	Yavuz BAL	Antalya	55

Question 1: Let's get all records with id and name information in the students table.

```
17 ---soru1: ogrenciler tablosundaki id ve isim bilgileri ile tüm kayıtları getirelim
18 select id, isim from ogrenciler
19
```

Data Output		Messages	Notifications
	id [PK] integer	isim character varying (50)	
1	1	Betul Koyuncu	
2	2	Zeki Demir	
3	3	Cemal Doğan	
4	4	Nazlı Nazan AVCI	
5	5	Miraç Demir	
6	6	Yavuz BAL	

Question 2: Let's bring all the information of the students whose exam score is above 80.

```
20 --soru2: sınav notu 80 den büyük olan öğrencilerin tüm bilgilerini getirelim.
21 select * from ogrenciler where sinav_notu > 80;
22
```

Data Output

Messages

Notifications

	id [PK] integer	isim character varying (50)	adres character varying (100)	sinav_notu integer
1	2	Zeki Demir	İzmir	90
2	3	Cemal Doğan	Trabzon	100
3	4	Nazlı Nazan AVCI	Aksaray	95

Question 3: Let's bring all the information of the students whose address is Ankara.

```
23 --soru3: Adresi Ankara olan öğrencilerin tüm bilgilerini getirelim.
24 select * from ogrenciler where adres='Ankara'
25
```

Data Output

Messages

Notifications

≡+

📄

▼

📋

▼

🗑️

🗄️

⬇️

📈

	<div>id</div> <div>[PK] integer</div> <div>✎</div>	<div>isim</div> <div>character varying (50)</div> <div>✎</div>	<div>adres</div> <div>character varying (100)</div> <div>✎</div>	<div>sinav_notu</div> <div>integer</div> <div>✎</div>
--	--	--	--	---

Blank registration returned. Because we do not have any students studying in Ankara.

Let's add a record

```
26 -- bir kayıt ekleyelim
27 insert into ogrenciler values(7,'Ali Gümüş','Ankara',100)
```

7	7	Ali Gümüş	Ankara	100
---	---	-----------	--------	-----

Question 4: Let's list the students whose exam score is 80 and whose address is Istanbul.

```
29 --soru4: Sınav notu 80 olan ve adresi İstanbul olan öğrencileri listeleyelim.
30 select * from ogrenciler where sinav_notu =80 and adres='İstanbul';
```

Data Output Messages Notifications

	id [PK] integer	isim character varying (50)	adres character varying (100)	sinav_notu integer
1	1	Betul Koyuncu	İstanbul	80

Question 5: Let's bring all the information of the students whose exam grades were 55 or 100.

```
32 --soru5: Sınav notu 55 veya 100 olan öğrencilerin tüm bilgilerini getirelim.
33 select * from ogrenciler where sinav_notu = 55 or sinav_notu =100;|
```

Data Output Messages Notifications

	id [PK] integer	isim character varying (50)	adres character varying (100)	sinav_notu integer
1	3	Cemal Doğan	Trabzon	100
2	6	Yavuz BAL	Antalya	55
3	7	Ali Gümüş	Ankara	100

Alternative solution:

```
34 select * from ogrenciler where sinav_notu in( 55, 100);|
```

Data Output Messages Notifications

	id [PK] integer	isim character varying (50)	adres character varying (100)	sinav_notu integer
1	3	Cemal Doğan	Trabzon	100
2	6	Yavuz BAL	Antalya	55
3	7	Ali Gümüş	Ankara	100

Question 6: Let's get all the information of students whose exam scores are between 65 and 95.

```
36 --soru6: sınav notu 65 ile 95 arasında olan öğrencilerin tüm bilgilerini getirelim.  
37 select * from ogrenciler where sinav_notu between 65 and 95;
```

Data Output Messages Notifications				
	id [PK] integer	isim character varying (50)	adres character varying (100)	sinav_notu integer
1	1	Betul Koyuncu	İstanbul	80
2	2	Zeki Demir	İzmir	90
3	4	Nazlı Nazan AVCI	Aksaray	95
4	5	Miraç Demir	Bursa	65

Question 7: Let's get all the information of the students whose id is not between 3 and 6.

```
39 --soru7: id si 3 ve 6 arasında olmayan öğrencilerin tüm bilgilerini getirelim.  
40 select * from ogrenciler where id not between 3 and 6;
```

Data Output Messages Notifications				
	id [PK] integer	isim character varying (50)	adres character varying (100)	sinav_notu integer
1	1	Betul Koyuncu	İstanbul	80
2	2	Zeki Demir	İzmir	90
3	7	Ali Gümüş	Ankara	100

Question 8: What is the highest exam score?

```
42 --soru8: En yüksek sınav puanı nedir?  
43 select max(sinav_notu) from ogrenciler;
```

Data Output Messages Notifications		
	max integer	
1	100	

Question 9: Let's bring all the information of those who live in Izmir and have an exam score greater than 50.

```
45 --soru9: İzmir de yaşayan ve sınav notu 50 den büyük olan tüm bilgilerini getirelim.
46 select * from ogrenciler where adres='İzmir' and sinav_notu > 50;
```

Data Output Messages Notifications				
	id [PK] integer	isim character varying (50)	adres character varying (100)	sinav_notu integer
1	2	Zeki Demir	İzmir	90

Question 10: Number of students and average exam score:

```
48 --soru10: Öğrenci sayısı ve ortalama sınav notu:
49 select count(*), avg(sinav_notu) from ogrenciler;
50
```

Data Output Messages Notifications		
	count bigint	avg numeric
1	7	83.5714285714285714

```
50 select count(*), round(avg(sinav_notu),0) from ogrenciler;
```

Data Output Messages Notifications		
	count bigint	round numeric
1	7	84

Question 11: Delete the row with the exam grade of 55.

```
52 --soru11: Sınav notu 55 olan satırı siliniz.
53 delete from ogrenciler where sinav_notu=55;
54 select * from ogrenciler;
```

Data Output Messages Notifications				
	id [PK] integer	isim character varying (50)	adres character varying (100)	sinav_notu integer
1	1	Betul Koyuncu	İstanbul	80
2	2	Zeki Demir	İzmir	90
3	3	Cemal Doğan	Trabzon	100
4	4	Nazlı Nazan AVCI	Aksaray	95
5	5	Miraç Demir	Bursa	65
6	7	Ali Gümüş	Ankara	100

Question 12: Delete the records named Zeki Demir or Miraç Demir.

```
56 --soru12: İsmi Zeki Demir veya Miraç Demir olan kayıtları silin.  
57 delete from ogrenciler where isim='Zeki Demir' or isim='Miraç Demir';
```

Data Output Messages Notifications

	id [PK] integer	isim character varying (50)	adres character varying (100)	sinav_notu integer
1	1	Betul Koyuncu	İstanbul	80
2	3	Cemal Doğan	Trabzon	100
3	4	Nazlı Nazan AVCI	Aksaray	95
4	7	Ali Gümüş	Ankara	100

Question 13: Delete the contents of the Students table

```
59 --soru13: Öğrenciler tablosunun içeriğini siliniz  
60 delete from ogrenciler;
```

Data Output Messages Notifications

	id [PK] integer	isim character varying (50)	adres character varying (100)	sinav_notu integer
--	--------------------	--------------------------------	----------------------------------	-----------------------

Question 14: Delete the Students table

select * from ogrenciler; **Error**

```
62 --soru14: Öğrenciler tablosunu siliniz  
63  
64 drop table ogrenciler;
```

Data Output Messages Notifications

ERROR: relation "ogrenciler" does not exist
LINE 1: select * from ogrenciler;
A

SQL state: 42P01

Character: 15