Basic Sql Practice - 2

****************** ON-DELETE-CASCADE *********************

If the on delete cascade command is not written in the child table

1-) When the parent table is tried to be deleted without deleting the child table,

PgAdmin gives Error. In other words, the parent table cannot be deleted without deleting the child table

2-) When the data in the parent table is tried to be deleted without deleting the data in the child table,

PgAdmin gives Error. In other words, the data in the parent table cannot be deleted without deleting the data in the child table

IF THE ON DELETE CASCADE COMMAND IS WRITTEN IN THE CHILD TABLE

1-) The parent table can be deleted without deleting the child table.

PgAdmin does not give Error

2-) When the data in the parent table is tried to be deleted without deleting the data in the child table, PgAdmin does not give Error. It deletes the data in the parent table. However, in this case, the data in the child table is also deleted.

CREATE TABLE parent2

```
25   CREATE TABLE parent2
26   (
27   vergi_no int PRIMARY KEY,
28   firma_ismi VARCHAR(50),
29   irtibat_ismi VARCHAR(50)
30   );
31   INSERT INTO parent2 VALUES (101, 'Sony', 'Kim Lee');
32   INSERT INTO parent2 VALUES (102, 'Asus', 'George Clooney');
33   INSERT INTO parent2 VALUES (103, 'Monster', 'Johnny Deep');
34   INSERT INTO parent2 VALUES (104, 'Apple', 'Mick Jackson') ;
35
36   select * from parent2;
37
```

Data Output   Messages   Notifications

	vergi_no [PK] integer	firma_ismi character varying (50)	irtibat_ismi character varying (50)
1	101	Sony	Kim Lee
2	102	Asus	George Clooney
3	103	Monster	Johnny Deep
4	104	Apple	Mick Jackson

CREATE TABLE child2

```
39  CREATE TABLE child2
40  (
41  ted_vergino int,
42  urun_id int,
43  urun_isim VARCHAR(50),
44  musteri_isim VARCHAR(50),
45  CONSTRAINT fk FOREIGN KEY (ted_vergino) REFERENCES parent2(vergi_no)
46  ON DELETE CASCADE
47  );
48  INSERT INTO child2 VALUES(101, 1001,'PC', 'Habip Sanli');
49  INSERT INTO child2 VALUES(102, 1002,'Kamera', 'Zehra 0z');
50  INSERT INTO child2 VALUES(102, 1003,'Saat', 'Mesut Kaya');
51  INSERT INTO child2 VALUES(102, 1004,'PC', 'Vehbi Koc');
52  INSERT INTO child2 VALUES(103, 1005,'Kamera', 'Cemal Sala');
53  INSERT INTO child2 VALUES(104, 1006,'Saat', 'Behlil Dana');
54  INSERT INTO child2 VALUES(104, 1007,'Kamera', 'Eymen Ozden');

56  select * from child2;
57
```

Data Output   Messages   Notifications

	ted_vergino integer	urun_id integer	urun_isim character varying (50)	musteri_isim character varying (50)
1	101	1001	PC	Habip Sanli
2	102	1002	Kamera	Zehra 0z
3	102	1003	Saat	Mesut Kaya
4	102	1004	PC	Vehbi Koc
5	103	1005	Kamera	Cemal Sala
6	104	1006	Saat	Behlil Dana
7	104	1007	Kamera	Eymen Ozden

QUESTION-1: Delete all data in parent2 table

```
58  -- SORU-1 : parent2 tablosundaki tum verileri siliniz
59  delete from parent2;
60  select * from parent2;
61  select * from child2;
62
```

Data Output   Messages   Notifications

vergi_no [PK] integer	firma_ismi character varying (50)	irtibat_ismi character varying (50)

```
61    select * from child2;
62
```

Data Output   Messages   Notifications

| ted_vergino 🔒 | urun_id 🔒 | urun_isim 🔒 | musteri_isim 🔒 |
| integer | integer | character varying (50) | character varying (50) |

Records in both tables are deleted with ON DELETE CASCADE

QUESTION-2: Delete the Parent2 table and child2

```
64    drop table parent2;
65    drop table parent2 cascade;
66
67
```

Data Output   Messages   Notifications

ERROR: constraint fk on table child2 depends on table parent2cannot drop table parent2 because other objects depend on it

ERROR: cannot drop table parent2 because other objects depend on it
SQL state: 2BP01
Detail: constraint fk on table child2 depends on table parent2
Hint: Use DROP ... CASCADE to drop the dependent objects too.

```
65    drop table parent2 cascade;
66
67
```

Data Output   Messages   Notifications

NOTICE: drop cascades to constraint fk on table child2
DROP TABLE

Query returned successfully in 68 msec.

```
69    drop table child2;
70
71
72
```

Data Output   Messages   Notifications

DROP TABLE

Query returned successfully in 69 msec.

CREATE TABLE toptancılar

```
72    CREATE TABLE toptancilar
73    (
74    vergi_no int PRIMARY KEY,
75    sirket_ismi VARCHAR(40),
76    irtibat_ismi VARCHAR(30)
77    );
78
79    INSERT INTO toptancilar VALUES (201, 'IBM', 'Kadir Şen');
80    INSERT INTO toptancilar VALUES (202, 'Huawei', 'Çetin Hoş');
81    INSERT INTO toptancilar VALUES (203,'Erikson', 'Mehmet Gör');
82    INSERT INTO toptancilar VALUES (204, 'Apple', 'Adem Coş');
```

CREATE TABLE malzemeler

```
84    CREATE TABLE malzemeler  --> child
85    (
86    ted_vergino int,
87    malzeme_id int,
88    malzeme_isim VARCHAR(20),
89    musteri_isim VARCHAR(25),
90    CONSTRAINT FK FOREIGN KEY (ted_vergino) REFERENCES toptancilar (vergi_no) on delete cascade
91    );
```

QUESTION-3: Update the material name of the record whose customer name is Asli Can in the materials table, with the company name of the record whose contact name is 'Adem Coş' in the wholesalers table.

Malzemeler table

Totancilar table


```
--SORU-4: Malzemeler tablosundaki musteri_isim'i Asli Can olan kaydin malzeme_isim'ini,
    --toptancilar tablosunda irtibat_ismi 'Adem Coş' olan kaydin sirket_ismi ile güncelleyiniz.
update malzemeler set malzeme_isim=(select sirket_ismi from toptancilar where irtibat_ismi='Adem Coş')
where musteri_isim='Asli Can';
select * from malzemeler;
```

QUESTION-3: Update the customer_name of the record whose material_name is Laptop with the contact_name of the wholesaler whose company_name is Apple.

	ted_vergino 🔒 integer	malzeme_id 🔒 integer	malzeme_isim 🔒 character varying (20)	musteri_isim 🔒 character varying (25)
1	202	1002	Telefon	Fatih Ak
2	202	1003	TV	Ramiz Özmen
3	202	1004	Laptop	Veli Tan
4	201	1001	Apple	Asli Can

Adem Coş

	vergi_no [PK] integer	sirket_ismi character varying (40)	irtibat_ismi character varying (30)
1	201	IBM	Kadir Şen
2	202	Huawei	Çetin Hoş
3	203	Erikson	Mehmet Gö
4	204	Apple	Adem Coş

```
update malzemeler set musteri_isim=(select irtibat_ismi from toptancilar where sirket_ismi='Apple' )
where malzeme_isim='Laptop';
select * from malzemeler;
```

	ted_vergino integer	malzeme_id integer	malzeme_isim character varying (20)	musteri_isim character varying (25)
	202	1002	Telefon	Fatih Ak
	202	1003	TV	Ramiz Özmen
	201	1001	Apple	Asli Can
	202	1004	Laptop	Adem Coş

Create Table arac:

```
create table arac (
id int,
marka varchar (30),
model varchar(30),
fiyat int,
kilometre int,
vites varchar(20)
);
```

```
insert into arac values (100, 'Citroen', 'C3', 500000, 5000, 'Otomatik' );
insert into arac values (101, 'Mercedes', 'C180', 900000, 10000, 'Otomatik' );
insert into arac values (102, 'Honda', 'Civic', 400000, 15000, 'Manuel' );
insert into arac values (103, 'Wolkswagen', 'Golf', 350000, 20000, 'Manuel' );
insert into arac values (104, 'Ford', 'Mustang', 750000, 5000, 'Otomatik' );
insert into arac values (105, 'Porsche', 'Panamera', 850000, 5000, 'Otomatik' );
insert into arac values (106, 'Bugatti', 'Veyron', 950008, 5000, 'Otomatik' );
```

QUESTION-5: List the highest price in the vehicle table

```
134   --SORU-5: arac tablosundaki en yüksek fiyat'ı listele
135   select max(fiyat) from arac;
136
```

Data Output   Messages   Notifications

max integer
950008

QUESTION-6: Find the total price of the vehicles in the vehicle table.

```
139   --Soru-6: arac tablosundaki araçların toplam fiyatını bulunuz
140   select sum(fiyat) as toplam_fiyat from arac;
141
```

Data Output   Messages   Notifications

toplam_fiyat bigint
4700008

QUESTION-7: Find the price averages in the vehicle table.

```
143    --Soru-7: arac tablosundaki fiyat ortalamalarını bulunuz
144    select avg(fiyat) as ortalama_fiyat from arac;
145
```
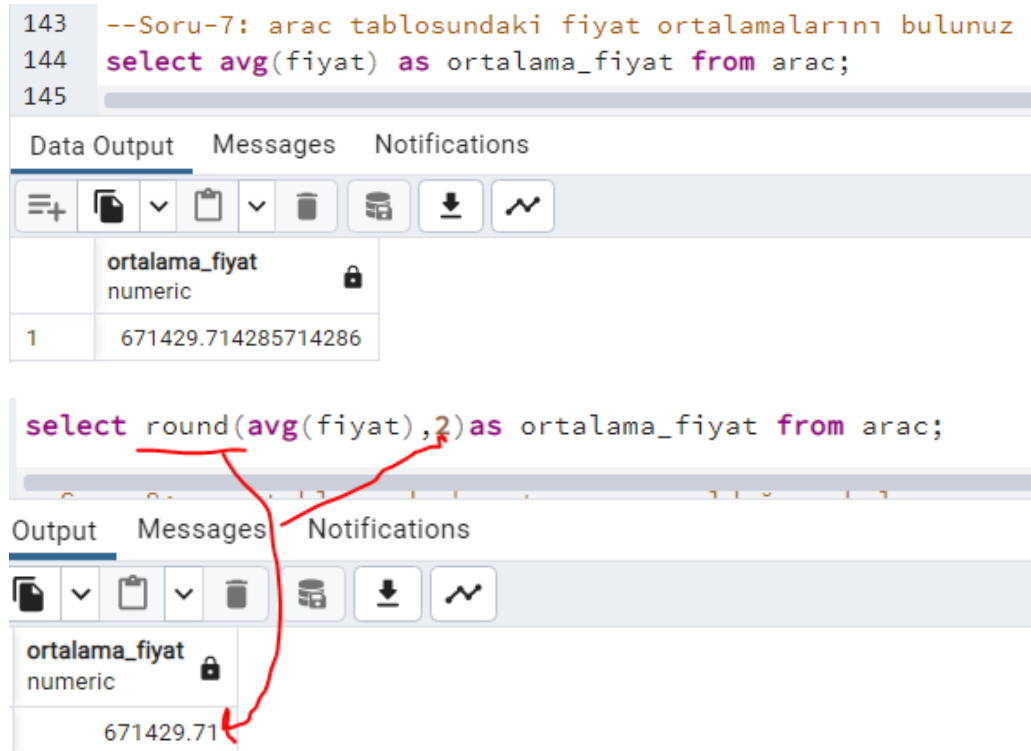
Data Output   Messages   Notifications

ortalama_fiyat numeric
671429.714285714286

```
select round(avg(fiyat),2)as ortalama_fiyat from arac;
```

Output   Messages   Notifications

ortalama_fiyat numeric
671429.71

QUESTION-8: Find how many vehicles are in the vehicle table.

```
--Soru-8:arac tablosunda kaç tane araç olduğunu bulunuz
select count(*)from arac;
```

Output   Messages   Notifications
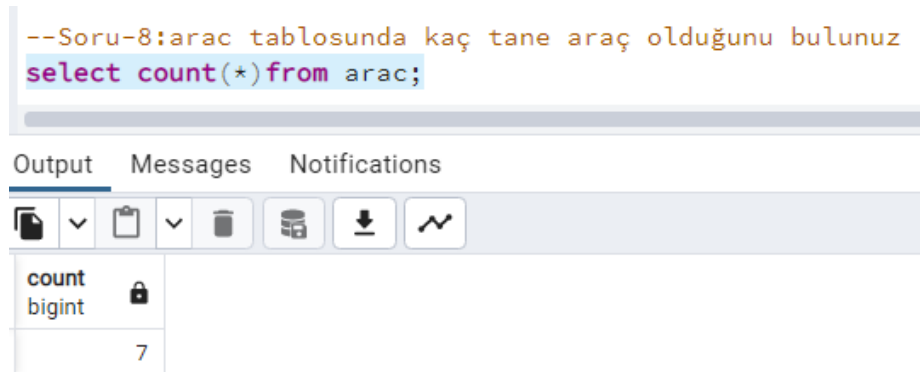
count bigint
7

CREATE TABLE meslekler

```
CREATE TABLE meslekler
(
id int PRIMARY KEY,
isim VARCHAR(50),
soyisin VARCHAR(50),
meslek CHAR(9),
maas int
);
```

```
INSERT INTO meslekler VALUES (1, 'Ali', 'Can', 'Doktor', '20000' );
INSERT INTO meslekler VALUES (2, 'Veli', 'Cem', 'Mühendis', '18000');
INSERT INTO meslekler VALUES (3, 'Mine', 'Bulut', 'Avukat', '17008');
INSERT INTO meslekler VALUES (4, 'Mahmut', 'Bulut', 'Ögretmen', '15000');
INSERT INTO meslekler VALUES (5, 'Mine', 'Yasa', 'Teknisyen', '13008');
INSERT INTO meslekler VALUES (6, 'Veli', 'Yilmaz', 'Hemşire', '12000');
INSERT INTO meslekler VALUES (7, 'Ali', 'Can', 'Marangoz', '10000' );
INSERT INTO meslekler VALUES (8, 'Veli', 'Cem', 'Tekniker', '14000');
```

QUESTION-9: Sort the occupations table by name.

```
--Soru-9: meslekler tablosunu isime göre sıralayınız
select * from meslekler order by isim;
```

Output   Messages   Notifications

id [PK] integer	isim character varying (50)	soyisin character varying (50)	meslek character	maas integer
1	Ali	Can	Doktor	20000
7	Ali	Can	Marangoz	10000
4	Mahmut	Bulut	Ögretmen	15000
5	Mine	Yasa	Teknisyen	13008
3	Mine	Bulut	Avukat	17008
6	Veli	Yilmaz	Hemşire	12000
2	Veli	Cem	Mühendis	18000
8	Veli	Cem	Tekniker	14000

QUESTION-10: Rank the salaries from largest to smallest in the occupations table.

```
--Soru-10: meslekler tablosunda maaşı büyükten küçüğe doğru sıralayınız
select * from meslekler order by maas DESC;
```

Output   Messages   Notifications

id [PK] integer	isim character varying (50)	soyisin character varying (50)	meslek character	maas integer
1	Ali	Can	Doktor	20000
2	Veli	Cem	Mühendis	18000
3	Mine	Bulut	Avukat	17008
4	Mahmut	Bulut	Ögretmen	15000
8	Veli	Cem	Tekniker	14000
5	Mine	Yasa	Teknisyen	13008
6	Veli	Yilmaz	Hemşire	12000
7	Ali	Can	Marangoz	10000

QUESTION-11: In the occupation table, list the salaries of those named Ali from largest to smallest.

```
--Soru-11: meslekler tablosunda ismi Ali olanların maaşını büyükten küçüğe doğru sıralayınız
select maas,isim from meslekler where isim='Ali' order by maas DESC;
```

--Soru-13: meslekler tablosunda id değeri 5 ten büyük olan ilk iki veriyi listeleyiniz

a Output   Messages   Notifications

maas integer	isim character varying (50)
20000	Ali
10000	Ali

QUESTION-12: List the first two data whose id value is greater than 5 in the occupations table.

```
--Soru-12: meslekler tablosunda id değeri 5 ten büyük olan ilk iki veriyi listeleyiniz
select * from meslekler where id>5 order by id asc limit 2;
```

Output   Messages   Notifications

id [PK] integer	isim character varying (50)	soyisin character varying (50)	meslek character	maas integer
6	Veli	Yilmaz	Hemşire	12000
7	Ali	Can	Marangoz	10000

QUESTION-13: Provide the information of the 3 people with the highest salaries in the occupations table.

```
--Soru-13: meslekler tablosunda maaşı en yüksek 3 kişinin bilgilerini getiriniz
select * from meslekler order by maas desc limit 3;
```

Output   Messages   Notifications

id [PK] integer	isim character varying (50)	soyisin character varying (50)	meslek character	maas integer
1	Ali	Can	Doktor	20000
2	Veli	Cem	Mühendis	18000
3	Mine	Bulut	Avukat	17008