

ONDOKUZMAYIS ÜNİVERSİTESİ
Bilgisayar Mühendisliği Bölümü

Veri Tabanı Lab. Dersi Deney Föyü-1

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postgresql

1 - select books.id as id, books.name as name from "books" inner join "publishers" on "publishers"."id" = "books"."publisher_id" where (publishers.name = 'Pusula Yayıncılık') order by year;

```
lab=# select books.id as id, books.name as name from "books" inner j
oin "publishers" on "publishers"."id" = "books"."publisher_id" where
(publishers.name = 'Pusula Yayıncılık') order by year;
 id |          name
-----+-----
 43 | Baskervillerin Köpeği
 17 | Alkoller
   3 | Dava
 30 | Kalpazanlar
 44 | Die Sonne Satans (Almanca)
 34 | Ses ve Öfke
 13 | Varlık ve Hiçlik
   4 | Küçük Prens
 24 | Kel Kantocu
 23 | Galyalı Asteriks
 33 | Yüzyıllık Yalnızlık
 14 | Gülün Adı
(12 rows)
```

2 - select publishers.name as publisher, books.name as book_name, books.year from "books" inner join "publishers" on "publishers"."id" = "books"."publisher_id" order by publishers.name, year;

```
lab=# select publishers.name as publisher, books.name as book_name,
books.year from "books" inner join "publishers" on "publishers"."id"
= "books"."publisher_id" order by publishers.name, year;
 publisher | book_name | year
-----+-----+-----
 Can Yayıncılık | Duygu Karmaşası | 1927
 Can Yayıncılık | Cesur Yeni Dünya | 1932
 Can Yayıncılık | Gecenin Sonuna Yolculuk | 1932
 Can Yayıncılık | Le Silence de la mer (Fransızca) | 1942
 Can Yayıncılık | Yabancı | 1942
 Can Yayıncılık | Paroles (Fransızca) | 1946
 Can Yayıncılık | İkinci Cins | 1949
 Can Yayıncılık | Der Husar auf dem Dach (Almanca) | 1951
 Can Yayıncılık | Şaka | 1967
 Can Yayıncılık | Zenon | 1968
 Kodlab Yayıncılık | Cinsellik Üzerine | 1905
 Kodlab Yayıncılık | Adsız Ülke | 1913
 Kodlab Yayıncılık | Büyülü Dağ | 1924
```

3 - select publishers.name as publisher, count(*) as book_count from "books" inner join "publishers" on "publishers"."id" = "books"."publisher_id" group by publishers.name;

```
lab=# select publishers.name as publisher, count(*) as book_count fr
om "books" inner join "publishers" on "publishers"."id" = "books"."p
ublisher_id" group by publishers.name;
 publisher      | book_count
-----+-----
 Kodlab Yayıncılık |          16
 Can Yayıncılık   |          10
 Pusula Yayıncılık |          12
 Martı Yayıncılık |          10
(4 rows)
```

4 - select publishers.name as publisher, count(*) as book_count from "books" inner join "publishers" on "publishers"."id" = "books"."publisher_id" where (books.year between 1900 and 2002) group by publishers.name having count(*) = 10;

```
lab=# select publishers.name as publisher, count(*) as book_count f
rom "books" inner join "publishers" on "publishers"."id" = "books"."
publisher_id" where (books.year between 1900 and 2002) group by publi
shers.name having count(*) = 10;
 publisher      | book_count
-----+-----
 Martı Yayıncılık |          10
 Can Yayıncılık   |          10
(2 rows)
```

5 - select name from books order by price, desc limit 10;

```
lab=# select name from books order by price desc limit 10;
 name
-----
 Kayıp Zamanın İzinde
 Dava
 Küçük Prens
 İnsanlık Durumu
 Gecenin Sonuna Yolculuk
 Gazap Üzümleri
 Çanlar Kimin İçin Çalıyor
 Adsız Ülke
 Günlerin Köpüğü
 Yabancı
(10 rows)
```

6 - select publishers.name as publisher from "books" inner join "publishers" on "publishers"."id" = "books"."publisher_id" where((books.year between 1900 and 2002)) GROUP by publishers.name;

```
lab=# select publishers.name as publisher from "books" inner join "p
ublishers" on "publishers"."id" = "books"."publisher_id" where((book
s.year between 1900 and 2002)) GROUP by publishers.name;
      publisher
-----
Pusula Yayıncılık
Martı Yayıncılık
Can Yayıncılık
Kodlab Yayıncılık
(4 rows)
```

7 - select publishers.name, count(*) as book_count from "books" inner join "publishers" on "publishers"."id" = "books"."publisher_id" where (year > 2007) GROUP by publishers.name;

```
lab=# select publishers.name, count(*) as book_count from "books" in
ner join "publishers" on "publishers"."id" = "books"."publisher_id"
where (year > 1950) GROUP by publishers.name;
      name      | book_count
-----+-----
Pusula Yayıncılık |          4
Can Yayıncılık   |          3
Martı Yayıncılık |          3
Kodlab Yayıncılık |          5
(4 rows)
```

8 - select name from books where first_author = (select first_author from books group by books.first_author order by count(*) desc limit 1);

```
lab=# select name from books where first_author = (select first_auth
or from books group by books.first_author order by count(*) desc lim
it 1);
      name
-----
Hüzünlü Dönenceler
(1 row)
```

9 - select name from books where price > (select avg(price) as price from books);

```
lab=# select name from books where price > (select avg(price) as price from books);
name
-----
(0 rows)
```

10 - select students.name from "subjects" inner join "studies" on "studies"."subject_id" = "subjects"."id" inner join "students" on "students"."id" = "studies"."student_id" inner join "departments" on "departments"."id" = "students"."department_id" WHERE "subjects"."stitle" = 'Veritabanı' and "departments"."name" = 'Bilgisayar Mühendisliği';

```
lab=# select students.name from "subjects" inner join "studies" on
"studies"."subject_id" = "subjects"."id" inner join "students" on "s
tudents"."id" = "studies"."student_id" inner join "departments" on "
departments"."id" = "students"."department_id" WHERE "subjects"."sti
tle" = 'Veritabanı' and "departments"."name" = 'Bilgisayar Mühendisli
ği';
name
-----
(0 rows)
```

11 - select students.name as student, departments.name department from "subjects" inner join "studies" on "studies"."subject_id" = "subjects"."id" inner join "students" on "students"."id" = "studies"."student_id" inner join "departments" on "departments"."id" = "students"."department_id" inner join "buys" on "buys"."student_id" = "students"."id" inner join "books" on "books"."id" = "buys"."book_id" where "subjects"."stitle" = 'Ağlar' and (subjects.stitle = 'Ağlar' and subjects.id = books.subject_id and departments.name != 'Bilgisayar Mühendisliği');

```
lab=# select students.name as student, departments.name department
from "subjects" inner join "studies" on "studies"."subject_id" = "su
bjects"."id" inner join "students" on "students"."id" = "studies"."s
tudent_id" inner join "departments" on "departments"."id" = "student
s"."department_id" inner join "buys" on "buys"."student_id" = "stude
nts"."id" inner join "books" on "books"."id" = "buys"."book_id" wher
e "subjects"."stitle" = 'Ağlar' and (subjects.stitle = 'Ağlar' and s
ubjects.id = books.subject_id and departments.name != 'Bilgisyaar MÜ
hendisliği');
student | department
-----+-----
(0 rows)
```

12 - select students.name from "students" inner join "studies" on "studies"."student_id" = "students"."id" inner join "buys" on "buys"."student_id" = "students"."id" inner join "books" on "books"."id" = "buys"."book_id" where (studies.student_id = buys.student_id);

```
lab=# select students.name from "students" inner join "studies" on "
studies"."student_id" = "students"."id" inner join "buys" on "buys".
"student_id" = "students"."id" inner join "books" on "books"."id" =
"buys"."book_id" where (studies.student_id = buys.student_id);
      name
-----
MELEK FAHRİ BEKİR
DILBAR NARTAJIYEVA
MERİMA MURTIÇ
JAFAR NOORİ
JAFAR NOORİ
MOHAMMAD M. NAMMOURAH
AIPERİ TAALAI KYZY
ERBLINA NIKSHIQI
AYTA FORUOZ
VEDAT CAMKIRAN
TAHMİNE HALİLOVA
NURİYEY ABBASLAN
```

13 - select books.name from "subjects" inner join "covers" on "covers"."subject_id" = "subjects"."id" inner join "books" on "books"."id" = "covers"."book_id" where (books.name = 'Veritabanı') order by books.id desc limit 1;

```
lab=# select books.name from "subjects" inner join "covers" on "cove
rs"."subject_id" = "subjects"."id" inner join "books" on "books"."id
" = "covers"."book_id" where (books.name = 'Veritabanı') order by bo
oks.id desc limit 1;
      name
-----
(0 rows)
```

14 - select buys.student_id, sum(price) as price from "books" inner join "buys" on "buys"."book_id" = "books"."id" where price > 40 group by buys.student_id having sum(price) > 200;

```
lab=# select buys.student_id, sum(price) as price from "books" inner
join "buys" on "buys"."book_id" = "books"."id" where price > 40 gro
up by buys.student_id having sum(price) > 200;
 student_id | price
-----+-----
(0 rows)
```

15 - select "books".* from "books" limit 10 offset 10;

```
lab=# select "books".* from "books" limit 10 offset 10;
 id | publisher_id | subject_id | name |
first_author | year | price
-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+
 11 |             | 4 | 5 | İkinci Cins | Simo
ne de Beauvoir | 1949 | 40.25
 12 |             | 3 | 2 | Godot'yu Beklerken | Samu
el Beckett | 1952 | 40.25
 13 |             | 1 | 4 | Varlık ve Hiçlik | Jean
-Paul Sartre | 1943 | 40.25
 14 |             | 1 | 5 | Gülün Adı | Umbe
rto Eco | 1980 | 40.25
 15 |             | 2 | 2 | Gulag Takımadaları | Alek
sandr Soljenitsin | 1973 | 40.25
 16 |             | 4 | 6 | Paroles (Fransızca) | Jacq
ues Privert | 1946 | 40.25
 17 |             | 1 | 7 | Alkoller | Guil
laume Apollinaire | 1913 | 40.25
 18 |             | 3 | 5 | Mavi Lotus | Herg
i | 1936 | 40.25
 19 |             | 2 | 2 | Het Achterhuis (Felemenkçe) | Anne
Frank | 1947 | 40.25
 20 |             | 2 | 8 | Hüzünlü Dönenceler | Clau
de Livi-Strauss | 1955 | 40.25
(10 rows)
```