

```
-- 2'li sorgu 1
-- Uçuşların bilgilerini fiyatına göre büyükten küçüğe sıralama
```

```
SELECT FARE.Flight_number,Airline_code,Fare_code,Amount
FROM Flight,Fare
WHERE FARE.Flight_number=FLight.Flight_number
ORDER BY Amount DESC;
```

ÇIKTISI:

| | Flight_number | Airline_code | Fare_code | Amount |
|---|---------------|--------------|-----------|--------|
| ► | DF2753 | THY | F | 750 |
| | LN3211 | PC | F | 625 |
| | DF2753 | THY | J | 550 |
| | LX3100 | TK | J | 550 |
| | FU4864 | THY | J | 500 |
| | EN4267 | PC | J | 480 |
| | GT4638 | XQ | J | 450 |
| | KV3323 | TK | J | 425 |
| | LN3211 | PC | J | 350 |
| | DF2753 | THY | Y | 300 |
| | LX3100 | TK | Y | 250 |
| | GT4638 | XQ | Y | 210 |
| | LN3211 | PC | Y | 205 |
| | FD5610 | PC | Y | 175 |
| | TK2752 | THY | Y | 140 |

```
-- 2'li sorgu 2
-- Planlanan tarihte gerçekleşen uçuşların listelenmesi
```

```
SELECT FLIGHT_LEG.Flight_number,Departure_time,Arrive_time,Scheduled_departure_time,Scheduled_arrive_time
FROM FLIGHT_LEG,LEG_INSTANCE
WHERE FLIGHT_LEG.Scheduled_departure_time=LEG_INSTANCE.Departure_time
AND FLIGHT_LEG.Scheduled_arrive_time=LEG_INSTANCE.Arrive_time;
```

ÇIKTISI:

| | Flight_number | Departure_time | Arrive_time | Scheduled_departure_time | Scheduled_arrive_time |
|---|---------------|---------------------|---------------------|--------------------------|-----------------------|
| ► | DF2755 | 2021-02-15 14:30:00 | 2021-02-15 16:00:00 | 2021-02-15 14:30:00 | 2021-02-15 16:00:00 |
| | DF2753 | 2021-02-15 14:30:00 | 2021-02-15 16:00:00 | 2021-02-15 14:30:00 | 2021-02-15 16:00:00 |
| | DF2753 | 2021-04-15 14:30:00 | 2021-04-15 16:00:00 | 2021-04-15 14:30:00 | 2021-04-15 16:00:00 |
| | DF2755 | 2021-02-15 14:30:00 | 2021-02-15 16:00:00 | 2021-02-15 14:30:00 | 2021-02-15 16:00:00 |
| | DF2753 | 2021-02-15 14:30:00 | 2021-02-15 16:00:00 | 2021-02-15 14:30:00 | 2021-02-15 16:00:00 |
| | EN4267 | 2021-03-05 21:30:00 | 2021-03-05 23:15:00 | 2021-03-05 21:30:00 | 2021-03-05 23:15:00 |
| | FD5610 | 2021-03-01 21:30:00 | 2021-03-01 22:30:00 | 2021-03-01 21:30:00 | 2021-03-01 22:30:00 |
| | FU4864 | 2021-03-25 11:30:00 | 2021-03-25 23:15:00 | 2021-03-25 11:30:00 | 2021-03-25 23:15:00 |
| | GT4638 | 2021-02-17 08:30:00 | 2021-02-17 09:45:00 | 2021-02-17 08:30:00 | 2021-02-17 09:45:00 |
| | GT4638 | 2021-03-15 11:30:00 | 2021-03-15 13:30:00 | 2021-03-15 11:30:00 | 2021-03-15 13:30:00 |
| | GT4638 | 2021-03-16 11:30:00 | 2021-03-16 13:30:00 | 2021-03-16 11:30:00 | 2021-03-16 13:30:00 |
| | KV3323 | 2021-03-17 08:30:00 | 2021-03-17 10:30:00 | 2021-03-17 08:30:00 | 2021-03-17 10:30:00 |
| | LX3100 | 2021-02-18 08:30:00 | 2021-02-18 09:40:00 | 2021-02-18 08:30:00 | 2021-02-18 09:40:00 |

-- 2'li sorgu 3

HAVAYOLLARINDA BULUNABİLEN Uçak tipleri ve Maksimum KAPASİTELERİ

```
SELECT can_land.Airport_code,airplane_type.airplane_type_name, airplane_type.Max_seats
FROM can_land, airplane_type
WHERE can_land.Airplane_type_name = airplane_type.Airplane_type_name
GROUP BY airplane_type_name
ORDER BY Max_seats DESC;
```

ÇIKTISI:

| | Airport_code | airplane_type_name | Max_seats |
|---|--------------|--------------------|-----------|
| ► | SAW | Boeing 767-300 | 351 |
| | YEI | Boeing 777 | 301 |
| | YEI | Airbus A310 | 220 |
| | USQ | Airbus A320 | 150 |
| | USQ | Douglas DC-2 | 14 |
| | KZR | Learjet 40 | 7 |

```
-- 3'lü sorgu 1
-- Economy sınıfından olan uçuşların kalkış ve varış yerleriyle birlikte
-- fiyatını listeler.
SELECT Fare.Flight_number,Departure_airport_code,Arrival_airport_code,Amount
FROM Flight,Fare,Leg_Instance
WHERE Flight.Flight_number=Fare.Flight_number
AND Fare_code="Y" AND Flight.Flight_number=Leg_Instance.Flight_number;
```

ÇIKTISI:

| | Flight_number | Departure_airport_code | Arrival_airport_code | Amount |
|---|---------------|------------------------|----------------------|--------|
| ► | DF2753 | SAW | ADB | 300 |
| | DF2753 | ESB | SAW | 300 |
| | DF2753 | SAW | ADB | 300 |
| | DF2753 | SAW | ADB | 300 |
| | FD5610 | ERZ | USQ | 175 |
| | GT4638 | ISL | KZR | 210 |
| | GT4638 | GZT | YEI | 210 |
| | GT4638 | YEI | GZT | 210 |
| | LX3100 | ADB | ISL | 250 |

```
-- 3'lü sorgu 2
--
# İstanbulda check-in yapan müşterilerinin isimleri
SELECT Customer_name
FROM CUSTOMER , CHECKED_IN, AIRPORT
WHERE CUSTOMER.Passport_number = CHECKED_IN.Passport_number
AND CHECKED_IN.Arrival_airport_code = AIRPORT.Airport_code
AND AIRPORT.City = "İstanbul" ;
```

ÇIKTISI:

| | Customer_name |
|---|---------------|
| ► | Taylan Tufan |
| | Aybars Aydın |

```
-- 3'lü sorgu 3
```

```
-- İsmi "Kerem Erkinsoy" olan müşterinin
```

```
-- uçuş yapacağı tarihler
```

```
SELECT Customer.Customer_name, flight_leg.Scheduled_departure_time
from Customer, Flight_leg, seat_reservation
where Customer.Customer_name= "Kerem Erkinsoy"
and Customer.Passport_number = Seat_reservation.Passport_number
and Seat_reservation.Flight_number = Flight_leg.Flight_number
and Seat_reservation.Leg_number = Flight_leg.Leg_number;
```

ÇIKTISI:

| | Customer_name | Scheduled_departure_time |
|---|----------------|--------------------------|
| ► | Kerem Erkinsoy | 2021-02-15 14:30:00 |
| | Kerem Erkinsoy | 2021-03-15 14:30:00 |
| | Kerem Erkinsoy | 2021-04-15 14:30:00 |

```
-- 4'lü sorgu
```

```
-- Müşterilerin uçuşlarında hangi havayolu şirketlerini kullandığını listeler.
```

```
SELECT DISTINCT Customer.Customer_name, customer.Passport_number, airline.Airline_name
from customer, airline, seat_reservation, flight
where customer.Passport_number = seat_reservation.Passport_number
and seat_reservation.Flight_number = flight.Flight_number
and flight.Airline_code = airline.Airline_code
order by customer.Passport_number;
```

| | Customer_name | Passport_number | Airline_name |
|---|----------------|-----------------|------------------|
| ► | Kerem Erkinsoy | U00005001 | Turkish Airlines |
| | İbrahim Kale | U00005002 | Pegasus |
| | İbrahim Kale | U00005002 | Turkish Airlines |
| | Lokman Hekim | U00005003 | Turkish Airlines |
| | Aybars Aydın | U00005004 | Pegasus |
| | Aybars Aydın | U00005004 | Anadolu Jet |
| | Aybars Aydın | U00005004 | Turkish Airlines |
| | Taylan Tufan | U00005005 | Anadolu Jet |
| | Taylan Tufan | U00005005 | Turkish Airlines |
| | Halil Toprak | U00005006 | Sunexpress |
| | Halil Toprak | U00005006 | Anadolu Jet |
| | Halil Toprak | U00005006 | Turkish Airlines |
| | Özge Büyukasik | U00005007 | Sunexpress |
| | Özge Büyukasik | U00005007 | Turkish Airlines |
| | Ramazan Tas | U00005008 | Turkish Airlines |

```
-- NESTED ORNEGİ 1
-- Ekonomi sınıfından olan uçuşların
-- ortalama bilet fiyatlarından daha ucuz olan
-- uçuşların listelenmesi
SELECT Flight_number, Amount
FROM FARE
HAVING AMOUNT <
ALL (SELECT AVG(Amount) FROM FARE WHERE FARE_CODE="Y");
```

ÇIKTISI:

| | Flight_number | Amount |
|---|---------------|--------|
| ► | FD5610 | 175 |
| | GT4638 | 210 |
| | LN3211 | 205 |
| | TK2752 | 140 |

```
-- NESTED ORNEGİ 2
-- 250 km'den kısa olan uçuşların listesi
select flight_leg.flight_number, flight_leg.leg_number, flight_leg.Mileage
from flight_leg
where (flight_leg.flight_number, flight_leg.leg_number) in (
select flight_leg.flight_number, flight_leg.leg_number
from flight_leg
where flight_leg.Mileage < 250);
```

ÇIKTISI:

| | flight_number | leg_number | Mileage |
|---|---------------|------------|---------|
| ► | DF2753 | 907 | 221 |
| | GT4638 | 908 | 221 |
| | GT4638 | 998 | 221 |
| | KV3323 | 704 | 195 |
| | KV3323 | 904 | 195 |

```
-- NESTED ORNEGI 3
-- Koltuk numarası 300'den fazla olan uçakların yaptığı uçuşlar ve tarihleri
SELECT Flight_number ,Leg_number,Flight_date
FROM LEG_INSTANCE
WHERE Airplane_id IN(
SELECT Airplane_id
FROM AIRPLANE
WHERE Total_number_of_seats > 300);
```

Çıktısı:

```
SELECT Flight_number ,Leg_number,Flight_date
FROM LEG_INSTANCE
WHERE Airplane_id IN(
SELECT Airplane_id
FROM AIRPLANE
WHERE Total_number_of_seats > 300);
```

```
-- NESTED ORNEGI 4
# Uçuş ücretinin değeri 150'den küçük olan havayolu şirketi
SELECT Airline_code,Flight_number
FROM FLIGHT
WHERE FLIGHT.Flight_number IN (
SELECT FARE.Flight_number
FROM FARE
WHERE Amount < 200);
```

Çıktısı:

| | Airline_code | Flight_number |
|---|--------------|---------------|
| ▶ | PC | FD5610 |
| | THY | TK2752 |
| ▲ | NULL | NULL |

CHECK-IN YAPMAYAN MUSTERİLER - NOT EXIST ORNEGI

```
SELECT *
FROM SEAT_RESERVATION AS A
WHERE NOT EXISTS (
SELECT Flight_number ,Leg_number ,Flight_date ,Seat_number Passport_number
FROM CHECKED_IN AS B
WHERE A.Flight_number = B.Flight_number
AND A.Leg_number = B.Leg_number
AND A.Flight_date =B.Flight_date
AND A.Seat_number=B.Seat_number
AND A.Passport_number=B.Passport_number);
```

ÇIKTISI:

| | Flight_number | Leg_number | Flight_date | Seat_number | Passport_number |
|---|---------------|------------|-------------|-------------|-----------------|
| ► | DF2753 | 921 | 2021-04-15 | 22C | U00005002 |
| | FD5610 | 906 | 2021-03-01 | 8C | U00005004 |
| | FU4864 | 806 | 2021-03-25 | 10C | U00005005 |
| | GT4638 | 998 | 2021-03-16 | 6A | U00005006 |
| | LX3100 | 905 | 2021-02-18 | 79C | U00005006 |
| | DF2753 | 911 | 2021-03-15 | 12C | U00005007 |
| | GT4638 | 903 | 2021-02-17 | 78A | U00005011 |
| | KV3323 | 904 | 2021-03-17 | 1C | U00005011 |

-- Inner Join örneği

-- Varış havaalanlarında hizmet veren şirketler ve buraya giden uçuşlar

```
SELECT FLIGHT.Flight_number,Airport.Airport_name, AIRLINE.Airline_name
FROM AIRPORT INNER JOIN
FLIGHT_LEG ON AIRPORT.Airport_code=FLIGHT_LEG.Departure_airport_code
INNER JOIN FLIGHT ON FLIGHT_LEG.Flight_number=FLIGHT.Flight_number
INNER JOIN AIRLINE ON AIRLINE.Airline_code=FLIGHT.Airline_code
AND FLIGHT.Airline_code=AIRLINE.Airline_code;
```

ÇIKTISI:

| | Flight_number | Airport_name | Airline_name |
|---|---------------|------------------------|------------------|
| ► | GT4638 | Atatürk Airport | Sunexpress |
| | GT4638 | Gaziantep Airport | Sunexpress |
| | GT4638 | Bursa Airport | Sunexpress |
| | DF2755 | Adnan Menderes Airport | Pegasus |
| | EN4267 | Adnan Menderes Airport | Pegasus |
| | FD5610 | Erzurum Airport | Pegasus |
| | LN3211 | Uşak Airport | Pegasus |
| | KV3323 | Zafer Airport | Anadolu Jet |
| | KV3323 | Zafer Airport | Anadolu Jet |
| | LX3100 | Adnan Menderes Airport | Anadolu Jet |
| | DF2753 | Sabiha Gökçen Airport | Turkish Airli... |

```
-- FULL OUTER JOIN
-- MYSQL DESTEKLEMEDIGI ICIN
-- UNION YAPILDI
SELECT * FROM CUSTOMER
LEFT OUTER JOIN FFC on CUSTOMER.Passport_number = FFC.Passport_number
UNION
SELECT * FROM CUSTOMER
RIGHT OUTER JOIN FFC on CUSTOMER.Passport_number = FFC.Passport_number;
```

ÇIKTISI:

| | Passport_number | Customer_name | Customer_phone | Email | Address | Country | Passport_number | Total_mileage_point | Segment |
|---|-----------------|----------------|----------------|-----------------|-----------|---------|-----------------|---------------------|---------|
| ► | U00005001 | Kerem Erkinsoy | 5369874123 | kerem@gmail.com | Usak | Turkiye | U00005001 | 1050 | |
| | U00005002 | İbrahim Kale | 5055448210 | ibo@gmail.com | Samsun | Turkiye | U00005002 | 1580 | |
| | U00005003 | Lokman Hekim | 5055446515 | loki@gmail.com | Konya | Turkiye | U00005003 | 350 | |
| | U00005004 | Aybars Aydın | 5545447810 | ibo@gmail.com | Eskisehir | Turkiye | U00005004 | 790 | |
| | U00005005 | Taylan Tufan | 5545447810 | tt@gmail.com | Alanya | Turkiye | U00005005 | 790 | |
| | U00005006 | Halil Toprak | 50519074586 | tt@gmail.com | Izmir | Turkiye | U00005006 | 675 | |
| | U00005007 | Özge Buyukasik | 905414778681 | o.b@g.com | Izmir | Turkiye | U00005007 | 546 | |
| | U00005008 | Ramazan Tas | 905414778682 | r.t@g.com | Usak | Turkiye | U00005008 | 325 | |
| | U00005009 | Sabri Gulseven | 905414778683 | s.g@g.com | Bursa | Turkiye | U00005009 | 325 | |
| | U00005010 | Hasan Tahsin | 905414778684 | h.t@g.com | Izmir | Turkiye | U00005010 | 195 | |