

Veritabanı Yönetimi ve Modellemesi Laboratuvarı

HAFTA 7

Aşağıdaki T-Sql ifadelerini yazınız:

1. Papağan türündeki kuşların tüm bilgilerini listeleyin

Çözüm 1:

```
select * from tbl_animal where animalType_Id
in (select id from tbl_AnimalType where info='Papağan')
```

Çözüm 2:

```
select A.* from tbl_animal AS A inner join tbl_AnimalType AS AT on
A.animalType_Id= AT.id where info='Papağan'
```

2. Bakıcıların ilgilendiği hayvan sayılarına göre büyükten küçüğe doğru sıralı listesi

```
select staff_id, COUNT(*) from tbl_Staff_animal
group by staff_id order by COUNT(*) DESC
```

3. Bakıcıların ilgilendiği hayvan türleri ve sayılarının listesi

Çözüm 1:

```
select staff_id, animalType_Id, COUNT(*) from tbl_Staff_animal AS SA inner join
tbl_animal AS A on SA.animal_id=A.id group by staff_id, animalType_Id
```

Çözüm 2:

```
select staff_id, AT.info, AnimalCount=COUNT(*)
from tbl_Staff_animal AS SA
inner join tbl_animal AS A on SA.animal_id=A.id
inner join tbl_AnimalType AS AT ON A.animalType_Id=AT.id
group by staff_id, info order by staff_id, COUNT(*)
```

4. Tüm hayvanların beslenme programlarını listeleyin

```
select * from tbl_animal_food_schedule
```

5. Hayvanların tükettiği besinlerin isimleri

Çözüm 1:

```
select distinct FT.description from tbl_animal_food_schedule AS ASF
inner join tbl_FoodType AS FT on ASF.food_id=FT.id
```

Çözüm 2:

```
select distinct description from tbl_FoodType Where id in
(select food_id from tbl_animal_food_schedule )
```

6. Hayvanat bahçesinde yaşayan hayvan türlerin tükettiği besinlerin isimleri ve hayvanların türleri

```
select distinct AT.info, FT.description from tbl_animal_food_schedule AS ASF
inner join tbl_Animal as A on a.id=asf.animal_Id
inner join tbl_AnimalType AS AT on a.animalType_Id= AT.id
inner join tbl_FoodType AS FT on ASF.food_id=FT.id
```

7. Hayvanların sabah öğününde yemesi gereken besinlerin isimleri ve toplam miktarlarını listeleyin

Çözüm 1:

```
select (select description from tbl_FoodType where id=food_id), sum(quantity) from
tbl_animal_Food_Schedule where mealTime_Id =(select id from tbl_MealTime where
info='Sabah') group by food_id
```

Çözüm 2:

```
select FT.description, SUM(quantity) from tbl_animal_Food_schedule AS AFS
inner join tbl_foodType AS FT ON AFS.food_id=FT.id
inner join tbl_MealTime AS MT ON MT.id=AFS.MealTime_Id
Where MT.info='sabah' group by FT.description
```

8. 04.11.2019 günü tüketilecek ürünlerin miktarları ve isimleri

```
select * from tbl_animal_food_schedule
where DAY =(select DATEPART(dw, CONVERT (DATE, '04.11.2019', 104)))
```

9. Hayvanların 1 hafta boyunca yemesi gereken besinleri ve miktarlarını listeleyin

Çözüm 1:

```
select (select description from tbl_FoodType where id=food_id), sum(quantity) from
tbl_animal_Food_Schedule group by food_id
```

Çözüm 2:

```
select description , sum(quantity)
from tbl_animal_Food_Schedule inner join tbl_foodType on
tbl_foodType.id=food_id group by description
```

10. Hayvanların 1 hafta boyunca yemesi gereken besin miktarından daha düşük stokta olanları listeleyin

Çözüm 1:

```
select Name=(select description from tbl_FoodType where id=food_id),
Stock=(select stock from tbl_Food_Stock where
tbl_Food_Stock.food_id=tbl_Animal_Food_schedule.food_id),
NeededStock=SUM(quantity)
from tbl_Animal_Food_schedule group by food_id
having (select stock from tbl_Food_Stock where
tbl_Food_Stock.food_id=tbl_Animal_Food_schedule.food_id)<SUM(quantity)
```

Çözüm 2:

```
select Name=(select description from tbl_FoodType where id=AFS.food_id),
FS.stock,
NeededStock=SUM(quantity) from tbl_animal_Food_Schedule as AFS
inner join tbl_Food_Stock as FS on FS.food_id=AFS.food_id
group by AFS.food_id, FS.stock having FS.stock<SUM(quantity)
```

Çözüm 3:

```
select Name=Ft.description, FS.stock, NeededStock=SUM(quantity)
from tbl_animal_Food_Schedule as AFS
inner join tbl_Food_Stock as FS on FS.food_id=AFS.food_id
inner join tbl_FoodType AS FT ON FT.id=AFS.food_id
group by Ft.description, FS.stock having FS.stock<SUM(quantity)
```

11. Stokta var olan ama hiç tüketilmemiş ürünlerin adı ve stok miktarı

Çözüm 1:

```
select Name=(select description from tbl_FoodType where
tbl_FoodType.id=tbl_food_Stock.food_id), stock from tbl_food_stock where food_id
not in (select food_id from tbl_animal_food_schedule)
```

Çözüm 2:

```
select Name=(select description from tbl_FoodType where
tbl_FoodType.id=FS.food_id), stock
from tbl_food_stock AS FS left join tbl_animal_food_schedule AS AFS
ON FS.food_id=AFS.Food_id group by FS.food_id, stock
having SUM(quantity) IS NULL
```

Çözüm 3:

```
select Name=description, stock
from tbl_food_stock AS FS
left join tbl_animal_food_schedule AS AFS ON FS.food_id=AFS.Food_id
inner join tbl_FoodType AS FT ON FT.id=FS.food_id
group by description, stock having SUM(quantity) IS NULL
```