# Veritabanı uygulama Soruları

## Employees

|  |  |  |  |
| --- | --- | --- | --- |
| employee\_id | first\_name | last\_name | department\_id |
| 1 | John | Doe | 101 |
| 2 | Alice | Smith | 102 |
| 3 | Bob | Johnson | 101 |
| 4 | Diana | Brown | 103 |
| 5 | Eve | White | 102 |

## Departments

|  |  |  |
| --- | --- | --- |
| department\_id | department\_name | manager\_id |
| 101 | Engineering | 1 |
| 102 | HR | 2 |
| 103 | Marketing | 4 |

## Salaries

|  |  |  |
| --- | --- | --- |
| employee\_id | salary | pay\_date |
| 1 | 6000 | 2024-10-01 |
| 2 | 4500 | 2024-10-01 |
| 3 | 5200 | 2024-10-01 |
| 4 | 5800 | 2024-10-01 |
| 5 | 4000 | 2024-10-01 |

1. Çalışan Adı ve Departman Adı ile Maaş Bilgilerini Getiren sql Sorgusunu yazınız?
2. Departman Müdürü Adı ve Çalışanlarının Maaş Ortalamasını yapan sql sorgusunu yazınız?
3. Belirli Bir Maaşın Altında Kalan Çalışanların Listesini getiren sql sorgusunu yazınız?
4. Departmana Göre Toplam Maaş Miktarını yapan sql sorgusunu yazınız?
5. Son Maaş Ödemesi Yapılan Çalışanların Bilgisini getiren sql sorgusunu yazınız?

**Cevaplar**

**Cevap 1)**

SELECT

e.first\_name,

e.last\_name,

d.department\_name,

s.salary

FROM

employees e

JOIN

departments d ON e.department\_id = d.department\_id

JOIN

salaries s ON e.employee\_id = s.employee\_id;

**Cevap 2)**

SELECT

d.department\_name,

e.first\_name AS manager\_first\_name,

e.last\_name AS manager\_last\_name,

AVG(s.salary) AS average\_salary

FROM

departments d

JOIN

employees e ON d.manager\_id = e.employee\_id

JOIN

salaries s ON s.employee\_id = e.employee\_id

GROUP BY

d.department\_name, e.first\_name, e.last\_name;

**Cevap 3)**

SELECT

e.first\_name,

e.last\_name,

d.department\_name,

s.salary

FROM

employees e

JOIN

salaries s ON e.employee\_id = s.employee\_id

JOIN

departments d ON e.department\_id = d.department\_id

WHERE

s.salary < 5000;

**Cevap 4)**

SELECT

d.department\_name,

SUM(s.salary) AS total\_salary

FROM

employees e

JOIN

salaries s ON e.employee\_id = s.employee\_id

JOIN

departments d ON e.department\_id = d.department\_id

GROUP BY

d.department\_name;

**Cevap 5)**

SELECT

e.first\_name,

e.last\_name,

d.department\_name,

s.salary,

s.pay\_date

FROM

employees e

JOIN

salaries s ON e.employee\_id = s.employee\_id

JOIN

departments d ON e.department\_id = d.department\_id

WHERE

s.pay\_date = (SELECT MAX(pay\_date) FROM salaries);