

SQL Tasks:

Access the following [DBeaver](#) link and install DBeaver. Import the data base file in DBeaver.

[Data Base File \(see attachment\)](#)

Fulfill the following tasks:

1. Select the employees from the employees table and sort them in descending order after the date of their hire (hire_date).

Select the employee ID (employee_no), first name (first_name), last name (last_name) and the date of hire (hire_date).

Solution:

```
SELECT employee_no, first_name, last_name, hire_date FROM employees order by  
hire_date DESC
```

Weblink: <https://i.imgur.com/4C4zFdW.png>

2. Select the employees that were born after and including the year 1960.

Select the first name (first_name), last name (last_name) and their date of birth (birth_date).

Solution:

```
SELECT first_name, last_name, birth_date FROM employees WHERE birth_date > '1960-01-  
01';
```

Weblink: <https://i.imgur.com/Fw5eF9x.png>

3. Select the employees from the employees table that have a name that starts with “Ma”.
Select the first name (first_name), last name (last_name) and their date of birth (birth_date).

Solution:

```
SELECT first_name, last_name, birth_date FROM employees WHERE first_name LIKE 'Ma%';
```

Weblink: <https://i.imgur.com/1KygGNs.png>

4. Select the employees ID's from the employeeTerritories table that live in București, Brașov and Timișoara.

Select their ID (employee_no) and city (city).

Solution:

```
SELECT employee_no, city FROM employeeTerritories et WHERE city IN ('București', 'Brașov', 'Timișoara');
```

Weblink: <https://i.imgur.com/Z8QILoI.png>

5. Count the employees in the titles table that have the job title (title) - “Engineer”.

Name the resulting column as “total engineers”.

Solution:

```
SELECT COUNT(employee_no) AS "Total Engineers" FROM titles t WHERE title = 'Engineer';
```

Weblink: <https://i.imgur.com/EyJd2OU.png>

6. Showcase the number of employees for each city from the employeeTerritories table.

Include only the cities that have more than 10 employees. Showcase the number of employees and the name of the city.

Solution:

```
SELECT COUNT(employee_no), city  
FROM employeeTerritories et  
GROUP BY city  
HAVING COUNT(employee_no) > 10;
```

Weblink: <https://i.imgur.com/aviXreQ.png>

7. Select the first and last name of employees and the job title they have in the company.

Showcase their first name (first_name), last name (last_name) and job title (title) from the employees and titles tables.

Solution:

```
SELECT employees.first_name, employees.last_name, titles.title
FROM employees
JOIN titles
ON employees.employee_no = titles.employee_no;
```

Weblink: <https://i.imgur.com/Gjwk12T.png>

8. Select the first name (first_name), last name (last_name) of the employees that have a salary between 50.000 and 60.000.

Select the first name (first_name), last name (last_name) and salary (salary) from employees and salaries tables.

Solution:

```
SELECT employees.first_name, employees.last_name, salaries.salary
FROM employees
JOIN salaries
ON employees.employee_no=salaries.employee_no
WHERE salary BETWEEN 50000 AND 60000
```

Weblink: <https://i.imgur.com/tQ1GZB0.png>