

## ZADANIE 1:

```
--Proszę wybrać identyfikatory pracowników  
--(employee_no)  
--oraz ich stanowiska (title) z Tabeli titles
```

\*<dbeaver.sqlite.sqlite\_> Script ×

```
SELECT employee_no, title FROM titles;
```

titles 1 ×

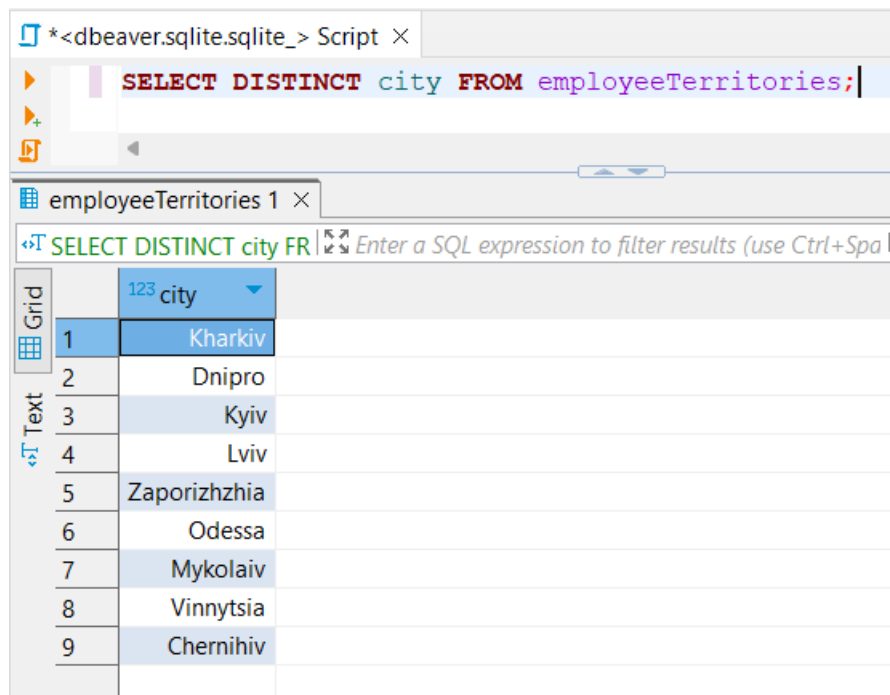
SELECT employee\_no, tit | Enter a SQL expression to filter results (use Ctrl+Sp

	employee_no	title
1	10,001	Senior Engineer
2	10,002	Staff
3	10,003	Senior Engineer
4	10,004	Engineer
5	10,004	Senior Engineer
6	10,005	Senior Staff
7	10,005	Staff
8	10,006	Senior Engineer
9	10,007	Senior Staff
10	10,007	Staff
11	10,008	Assistant Engineer
12	10,009	Assistant Engineer
13	10,009	Engineer
14	10,009	Senior Engineer
15	10,010	Engineer
16	10,011	Staff
17	10,012	Engineer
18	10,012	Senior Engineer
19	10,013	Senior Staff
20	10,014	Engineer
21	10,015	Senior Staff
22	10,016	Staff
23	10,017	Senior Staff
24	10,017	Staff
25	10,018	Engineer
26	10,018	Senior Engineer

Refresh Save Cancel

## ZADANIE 2:

```
--Proszę wybrać miasta (city) z Tabeli  
--employeeTerritories
```

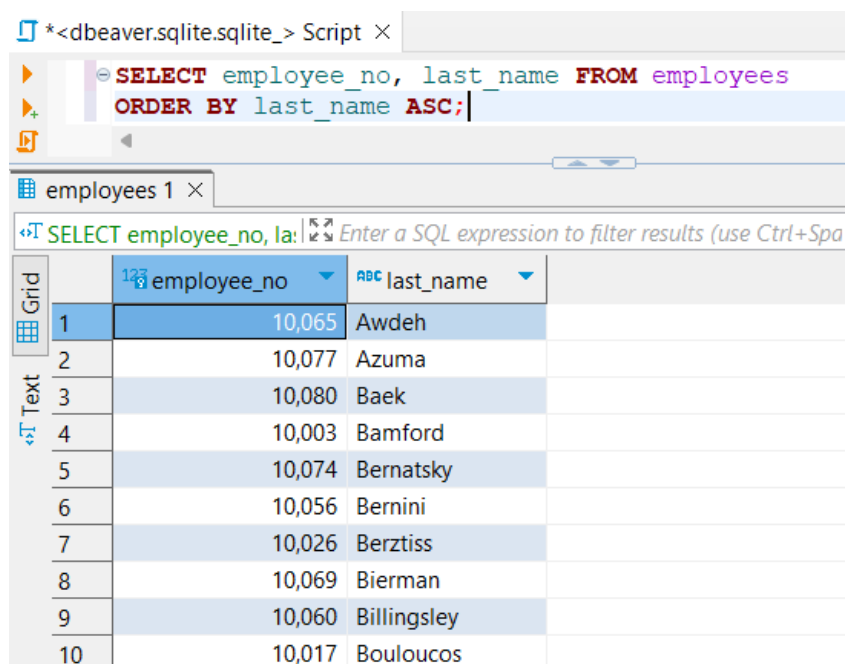


The screenshot shows the DBeaver SQL editor interface. The top pane displays the SQL query: `SELECT DISTINCT city FROM employeeTerritories;`. The bottom pane shows the results of the query in a table grid. The table has two columns: 'city' and an unnamed column. The results are as follows:

	city
1	Kharkiv
2	Dnipro
3	Kyiv
4	Lviv
5	Zaporizhzhia
6	Odessa
7	Mykolaiv
8	Vinnitsia
9	Chernihiv

### ZADANIE 3:

```
--Proszę wybrać identyfikatory pracowników (employee_no)  
--oraz ich nazwiska (last_name) z Tabeli employees.  
--Uwaga: sortuj dane według nazwisk (last_name) w porządku rosnącym
```

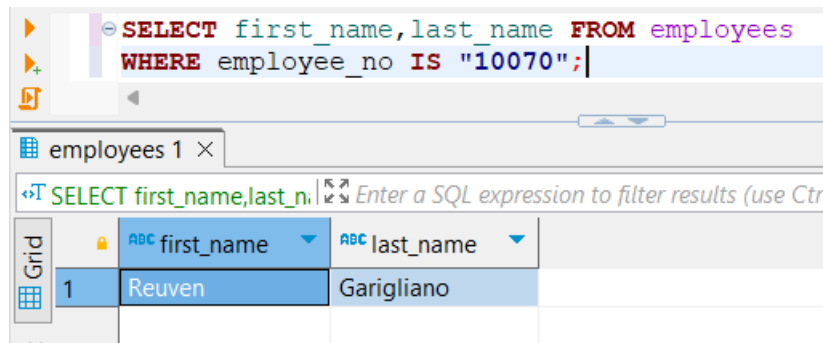


The screenshot shows the DBeaver SQL editor interface. The top pane displays the SQL query: `SELECT employee_no, last_name FROM employees ORDER BY last_name ASC;`. The bottom pane shows the results of the query in a table grid. The table has two columns: 'employee\_no' and 'last\_name'. The results are as follows:

	employee_no	last_name
1	10,065	Awdeh
2	10,077	Azuma
3	10,080	Baek
4	10,003	Bamford
5	10,074	Bernatsky
6	10,056	Bernini
7	10,026	Bertziss
8	10,069	Bierman
9	10,060	Billingsley
10	10,017	Bouloucos

#### ZADANIE 4:

```
--Proszę wybrać imię (first_name) oraz nazwisko pracownika  
--z Tabeli employees, którego identyfikator  
--(employee_no) zawiera "10 070"
```



The screenshot shows the SQL Developer interface. The query editor contains the following SQL statement:

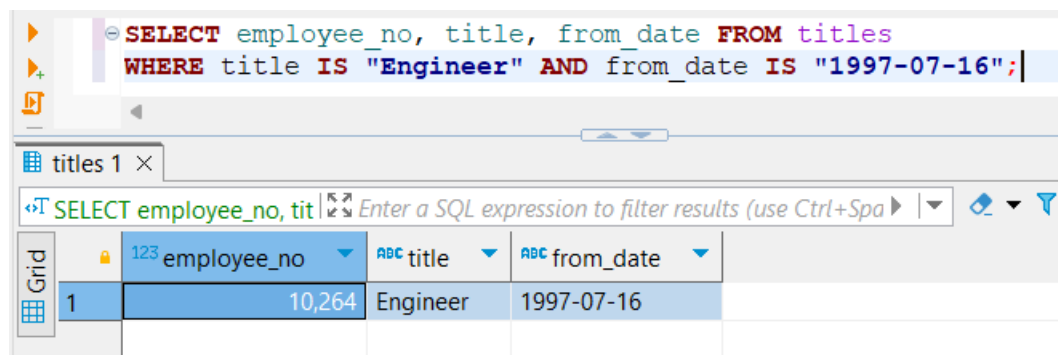
```
SELECT first_name, last_name FROM employees  
WHERE employee_no IS "10070";
```

Below the query editor, the results are displayed in a grid. The grid has two columns: first\_name and last\_name. The first row contains the values 'Reuven' and 'Garigliano'.

	first_name	last_name
1	Reuven	Garigliano

#### ZADANIE 5:

```
--Proszę wybrać identyfikatory (employee_no),  
--ich stanowiska (title) oraz datę zatrudnienia (from_date) z  
--Tabeli titles.  
--Pokaż tylko te, które są ze stanowiskiem "Engineer" oraz datą  
--zatrudnienia "1997-07-16"
```



The screenshot shows the SQL Developer interface. The query editor contains the following SQL statement:

```
SELECT employee_no, title, from_date FROM titles  
WHERE title IS "Engineer" AND from_date IS "1997-07-16";
```

Below the query editor, the results are displayed in a grid. The grid has three columns: employee\_no, title, and from\_date. The first row contains the values '10,264', 'Engineer', and '1997-07-16'.

	employee_no	title	from_date
1	10,264	Engineer	1997-07-16

#### ZADANIE 6:

```
--Proszę wybrać identyfikatory (employee_no) oraz ich  
--stanowiska (title) z Tabeli titles.  
--Pokaż tylko te, które są ze stanowiskiem "Technique Leader"  
--lub "Senior Engineer"
```

\*<dbeaver.sqlite.sqlite\_> Script ×

```
SELECT employee_no, title FROM titles
WHERE title = 'Technique Leader' OR title = 'Senior Engineer';
```

titles 1 ×

SELECT employee\_no, tit | Enter a SQL expression to filter results (use Ctrl+Spa ▶

	employee_no	title
1	10,001	Senior Engineer
2	10,003	Senior Engineer
3	10,004	Senior Engineer
4	10,006	Senior Engineer
5	10,009	Senior Engineer
6	10,012	Senior Engineer
7	10,018	Senior Engineer
8	10,021	Technique Leader
9	10,025	Technique Leader
10	10,026	Senior Engineer
11	10,027	Senior Engineer

## ZADANIE 7:

```
--Proszę wybrać identyfikatory pracowników (employee_no)
--oraz miasta, w których oni mieszkają (city) z Tabeli
employeeTerritories.
--Pokaż wszystkie miasta, z wyjątkiem "Kyiv".
```

\*<dbeaver.sqlite.sqlite\_> Script ×

```
SELECT employee_no, city FROM employeeTerritories
WHERE city IS NOT "Kyiv";
```

employeeTerritories 1 ×

SELECT employee\_no, city Enter a SQL expression to filter results (use Ctrl+Spa ▶

	123 employee_no	123 city
1	10,001	Kharkiv
2	10,002	Dnipro
3	10,003	Kharkiv
4	10,004	Dnipro
5	10,006	Lviv
6	10,008	Kharkiv
7	10,009	Dnipro
8	10,010	Zaporizhzhia
9	10,011	Odessa
10	10,012	Odessa
11	10,013	Zaporizhzhia
12	10,014	Dnipro
13	10,015	Kharkiv
14	10,017	Zaporizhzhia
15	10,018	Dnipro

## ZADANIE 8:

```
--Proszę wybrać nazwiska pracowników (last_name) oraz
datę urodzenia (birth_date) z Tabeli employees.
Pokaż tylko tych, którzy zostali urodzeni od
'1960-01-01' do '1964-12-31'
```

\*<dbeaver.sqlite.sqlite\_> Script ×

```
SELECT last_name, birth_date FROM employees
WHERE birth_date BETWEEN '1960-01-01' AND '1964-12-31';
```

employees 1 ×

SELECT last\_name, birth\_date Enter a SQL expression to filter results (use Ctrl+Spa ▶

	last_name	birth_date
1	Simmel	1964-06-02
2	Piveteau	1963-06-01
3	Bridgland	1960-10-04
4	Terkki	1963-06-07
5	Cappelletti	1961-05-02
6	Erde	1960-02-20
7	Reistad	1962-07-10
8	Tempesti	1963-11-26
9	Reistad	1960-08-09
10	Swan	1962-12-29
11	Makrucki	1963-07-22
12	Lortz	1960-07-20

## ZADANIE 9:

```
--Proszę wybrać identyfikatory pracowników (employee_no) oraz
--ich stanowiska (title) z Tabeli titles.
--Pokaż tylko tych, których nazwa stanowiska zaczyna się od "Senior".
```

\*<dbeaver.sqlite.sqlite\_> Script ×

```
SELECT employee_no, title FROM titles
WHERE title LIKE "Senior%";
```

titles 1 ×

SELECT employee\_no, tit | Enter a SQL expression to filter result

	employee_no	title
1	10,001	Senior Engineer
2	10,003	Senior Engineer
3	10,004	Senior Engineer
4	10,005	Senior Staff
5	10,006	Senior Engineer
6	10,007	Senior Staff
7	10,009	Senior Engineer
8	10,012	Senior Engineer
9	10,013	Senior Staff
10	10,015	Senior Staff
11	10,017	Senior Staff
12	10,018	Senior Engineer
13	10,026	Senior Engineer
14	10,027	Senior Engineer
15	10,029	Senior Engineer

## ZADANIE 10:

```
--Proszę wybrać identyfikatory pracowników (employee_no) oraz miasta, w
których mieszkają (city) z Tabeli employeeTerritories.
--Pokaż wszystkie miasta zaczynające się na "K" i zawierające co najmniej
4 symbole.
```

SQL Query:

```
SELECT employee_no, city FROM employeeTerritories
WHERE city LIKE 'K__%';
```

Results 1 ×

Grid

	123 employee_no	123 city
1	10,001	Kharkiv
2	10,003	Kharkiv
3	10,005	Kyiv
4	10,007	Kyiv
5	10,008	Kharkiv
6	10,015	Kharkiv
7	10,016	Kyiv
8	10,019	Kharkiv
9	10,023	Kharkiv
10	10,027	Kharkiv
11	10,031	Kharkiv
12	10,035	Kharkiv

### ZADANIE 11:

```
--Proszę obliczyć liczbę kobiet ("F") zatrudnionych przez firmę.
--Aby to zrobić, wybierz płeć (gender) z Tabeli
--Employees.
--Przypisz kolumnie wynikowej nazwę "Kobieta"/"Female"
```

SQL Query:

```
SELECT COUNT(gender) AS 'Female' FROM employees
WHERE gender LIKE 'F';
```

Results 1 ×

Grid

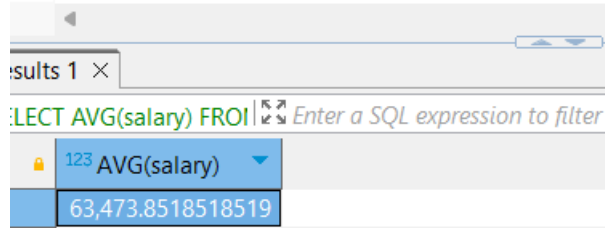
	123 Female
1	32

### ZADANIE 12:

```
--Proszę obliczyć średnie wynagrodzenie pracowników.
--Aby to zrobić, musisz wybrać wynagrodzenie (salary) z
--Tabeli salaries
```



```
SELECT AVG(salary) FROM salaries;
```



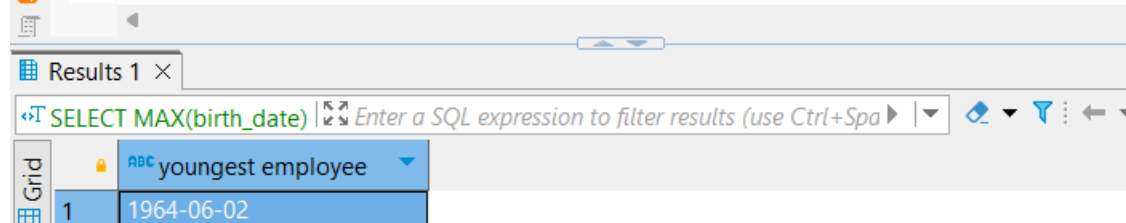
The screenshot shows a SQL query result in a table with one column and one row. The column is labeled 'AVG(salary)' and the value is '63,473.8518518519'.

AVG(salary)
63,473.8518518519

### ZADANIE 13:

```
--Proszę wybrać najmłodszego pracownika w firmie, przy użyciu  
--funkcji SQL.  
--Aby to zrobić, należy wybrać datę urodzenia (birth_date)  
--z Tabeli employees.  
--Uwaga: przypisz nazwę do kolumny wynikowej  
--"youngest employee"/"Najmłodszy Pracownik".
```

```
SELECT MAX(birth_date) AS 'youngest employee' FROM employees;
```



The screenshot shows a SQL query result in a table with one column and one row. The column is labeled 'youngest employee' and the value is '1964-06-02'.

youngest employee
1964-06-02

### ZADANIE 14:

```
--Dodaj nowy wiersz do Tabeli employees, wypełniając  
--wszystkie kolumny o następujących wartościach:  
--'10100', '1995-12-31', 'Viktoria', 'Tutor', 'F', '2000-01-01'.  
--lista kolumn:  
--employee_no, birth_date, first_name, last_name, gender, hire_date
```



*<dbeaver.sqlite.sqlite_> Script ×	
<pre>DELETE FROM employees WHERE last_name = 'Test';</pre>	
Statistics 1 ×	
Name	Value
Updated Rows	1
Query	DELETE FROM employees WHERE last_name = 'Test'
Start time	Fri Jan 19 17:01:05 CET 2024
Finish time	Fri Jan 19 17:01:05 CET 2024

### ZADANIE 17:

```
--Proszę wyświetlić liczbę pracowników dla każdej pozycji
--z Tabeli titles.
--Weź pod uwagę tylko te pozycje, które zawierają ponad 150
--pracowników.
--Wyświetl liczbę pracowników oraz nazwę stanowiska (title).
```

*<dbeaver.sqlite.sqlite_> Script ×	
<pre>SELECT COUNT(employee_no), title FROM titles GROUP BY title HAVING COUNT(employee_no) &gt; 150;</pre>	
titles 1 ×	
<pre>SELECT COUNT(employee_no), title</pre>	
Grid	titles
1	161 Engineer
2	154 Staff

### ZADANIE 18:

```
--Proszę wybrać imię i nazwisko pracowników, miasta, w których oni
mieszkają.
--Wyświetl imię (first_name), nazwisko (last_name)
--oraz miasto (city) za pomocą obu Tabel
--employees i employeeTerritories.
```

```

SELECT employees.first_name, employees.last_name, employeeTerritories.city
FROM employees
JOIN employeeTerritories
ON employees.employee_no = employeeTerritories.employee_no;

```

employees(+) 1 ×

SELECT employees.first\_name, employees.last\_name, € Enter a SQL expression to filter results (use Ctrl+Space)

	first_name	last_name	city
1	Georgi	Facello	Kharkiv
2	Bezalel	Simmel	Dnipro
3	Parto	Bamford	Kharkiv
4	Chirstian	Koblick	Dnipro
5	Kyoichi	Maliniak	Kyiv
6	Anneke	Preusig	Lviv
7	Tzvetan	Zielinski	Kyiv
8	Saniya	Kalloufi	Kharkiv
9	Sumant	Peac	Dnipro
10	Duangkaew	Piveteau	Zaporizhzhia
11	Mary	Sluis	Odessa
12	Patricio	Bridgland	Odessa
13	Eberhardt	Terkki	Zaporizhzhia
14	Berni	Genin	Dnipro