

Homework: SQL JOIN is back

Example:

1. Select all articles from the **article** table.

Command:

None

```
SELECT * FROM article;
```

Screenshot of the result:

[illegible]

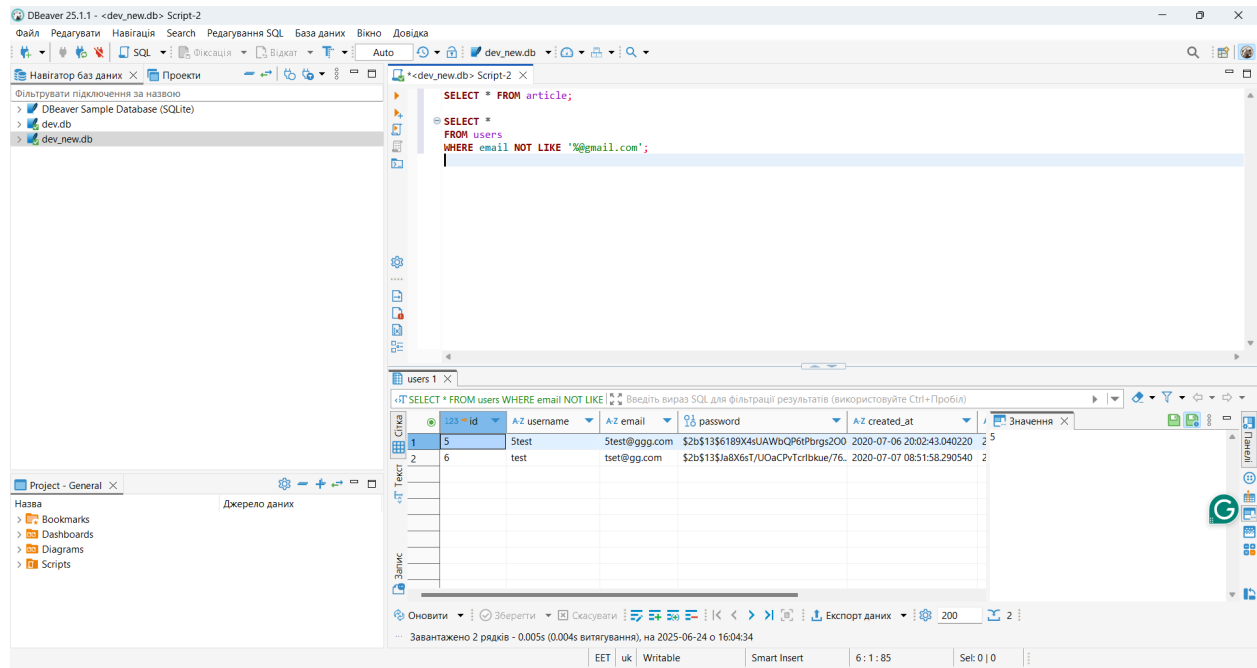
1. Select all **users** whose email does not end with @gmail.com.

Command:

None

```
SELECT *
FROM users
WHERE email NOT LIKE '%@gmail.com';
```

Screenshot of the result:



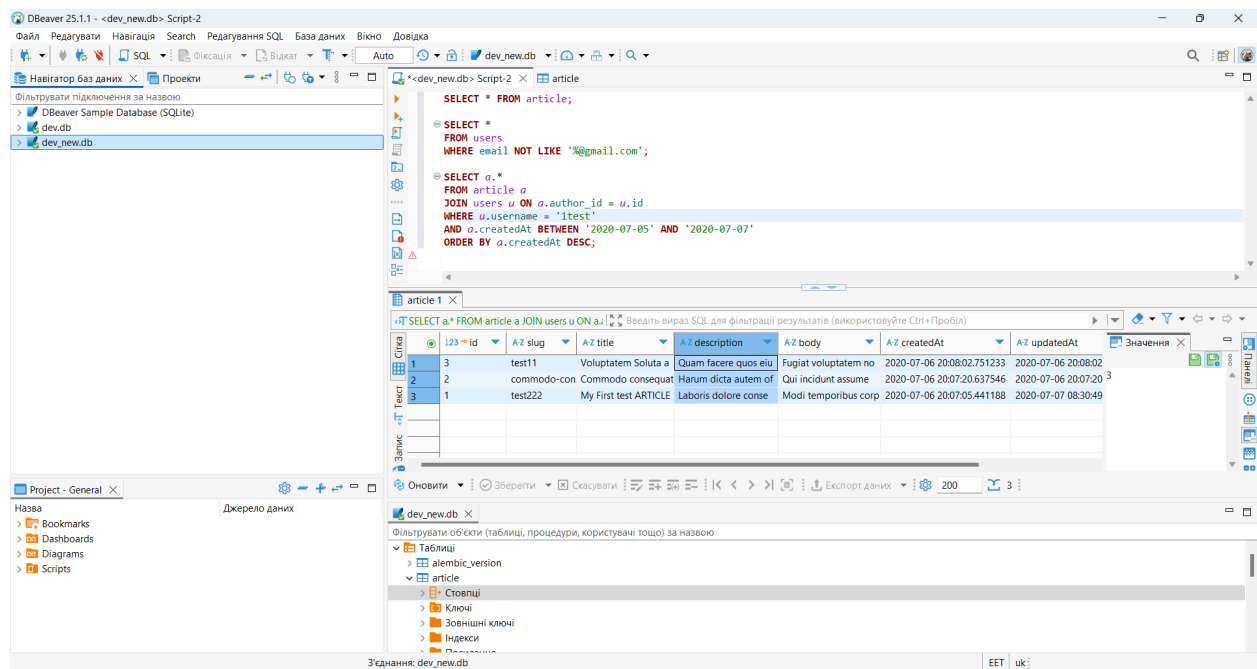
2. Select all **articles** that were written by user 1test and created between 2020-07-5 and 2020-07-7 (included), and order by a descending created date.

Command:

None

```
SELECT a.*
FROM article a
JOIN users u ON a.author_id = u.id
WHERE u.username = '1test'
AND a.createdAt BETWEEN '2020-07-05' AND '2020-07-07'
ORDER BY a.createdAt DESC;
```

Screenshot of the result:

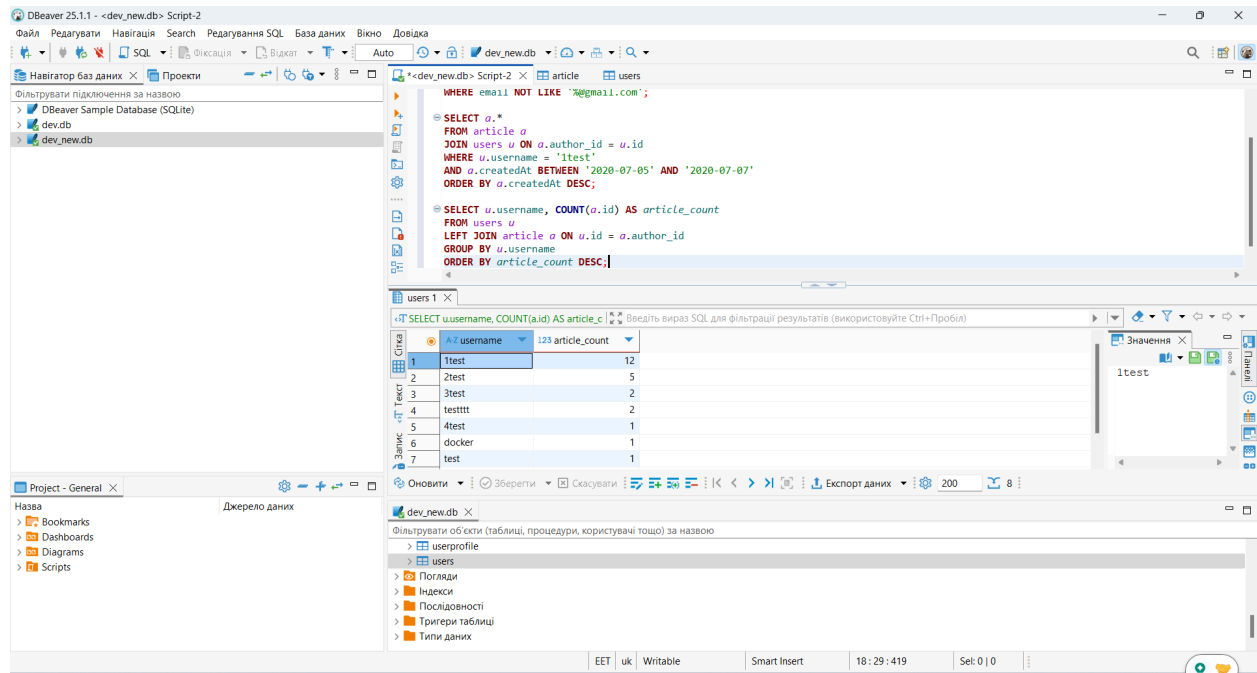


3. Select the usernames of **users** and the number of articles written by these users.
Command:

None

```
SELECT u.username, COUNT(a.id) AS article_count  
FROM users u  
LEFT JOIN article a ON u.id = a.author_id  
GROUP BY u.username  
ORDER BY article_count DESC;
```

Screenshot of the result:



4. Select all **users** who have **favorite** articles. Print **username** and **article_title** columns.

Command:

None

```
SELECT u.username, a.title AS article_title
FROM favoritor_assoc f
JOIN users u ON f.favoriter = u.id
JOIN article a ON f.favorited_article = a.id;
```

Screenshot of the result:

The screenshot displays the DBeaver 25.1.1 interface with the following components:

- Top Panel:** Contains the SQL editor with three scripts:
 - `WHERE u.username = '1test'`
 - `AND a.createdAt BETWEEN '2020-07-05' AND '2020-07-07'`
 - `ORDER BY a.createdAt DESC;`
 - `SELECT u.username, COUNT(a.id) AS article_count`
 - `FROM users u`
 - `LEFT JOIN article a ON u.id = a.author_id`
 - `GROUP BY u.username`
 - `ORDER BY article_count DESC;`
 - `SELECT u.username, a.title AS article_title`
 - `FROM favoritor assoc f`
 - `JOIN users u ON f.favoriter = u.id`
 - `JOIN article a ON f.favorited_article = a.id;`
- Bottom Panel:** Displays the results of the query in a table with columns `username` and `article_title`. The results are:

username	article_title
2test	My First test ARTICLE
3test	Voluptatem Soluta a
4test	My First test ARTICLE
test	My First test ARTICLE
testttt	Commodo consequatur
- Left Panel:** Shows the database structure with the following items:
 - Project - General
 - Назва
 - Джерело даних
 - Bookmarks
 - Dashboards
 - Diagrams
 - Scripts
- Right Panel:** Shows the database structure with the following items:
 - userprofile
 - users
 - Погляди
 - Індекси
 - Послідовності
 - Тригери таблиці
 - Типи даних