

# SQL JOIN

## Example:

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

## Command:

None

```
SELECT * FROM article;
```

## Screenshot of the result:

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

### Command:

None

```
SELECT * FROM users u
```

```
WHERE email NOT LIKE '%@gmail.com';
```

## Screenshot of the result:

The screenshot shows a database grid titled "users 1". The columns are labeled: id, username, email, password, created\_at, and updated\_at. There are two rows of data:

id	username	email	password	created_at	updated_at
1	5test	5test@ggg.com	\$2b\$13\$6189X4sUAbQP6tPbrgs2O0cs	2020-07-06 20:02:43.040220	2020-07-06 20:02:43.040220
2	test	tset@gg.com	\$2b\$13\$Ja8X6sT/UoACPvTcrlbkue/76...	2020-07-07 08:51:58.290540	2020-07-07 08:51:58.290540

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 *
FROM article
INNER JOIN userprofile u
ON article.author_id = u.id
INNER JOIN users u2
ON u.user_id = u2.id
WHERE (createdAt BETWEEN '2020-07-05 00:00:00' AND '2020-07-07
23:59:59')
AND (u2.username = '1test')
ORDER BY createdAt DESC;
```

## Screenshot of the result:

The screenshot shows a database grid titled "article(+ 1)". The columns are labeled: id, slug, title, description, body, createdAt, updatedAt, and aut. There are 12 rows of data:

id	slug	title	description	body	createdAt	updatedAt	aut
1	20	test888	Test888	test	2020-07-07 08:33:37.009693	2020-07-07 08:33:37.009710	1
2	19	3test333	3test333	test	2020-07-07 08:32:13.064329	2020-07-07 08:34:03.640544	1
3	18	test23	test23	3232	2020-07-07 08:31:39.605476	2020-07-07 08:31:39.605488	1
4	17	test3333	test3333	eetest	2020-07-07 08:22:14.920448	2020-07-07 08:23:51.998590	1
5	16	test34	Test34	Aut consectetur opti	2020-07-07 08:21:01.967568	2020-07-07 08:21:01.967583	1
6	15	test-article	Test Article	Amet culpa eiusmod	2020-07-07 08:18:51.371219	2020-07-07 08:18:51.371225	1
7	6	exercitation-excepte	Exercitation excepte	test	2020-07-07 06:08:24.813331	2020-07-07 06:08:24.813345	1
8	5	voluptate-proident	Voluptate proident	Recusandae Eiusmod	2020-07-07 06:08:19.941406	2020-07-07 06:08:19.941418	1
9	4	ea-pariatur-odit-ip	Ea pariatur Odit ip	Adipisicing dolorum	2020-07-07 06:08:14.362213	2020-07-07 06:08:14.362221	1
10	3	test11	Voluptatem Soluta a	Quam facere quos eiu	2020-07-06 20:08:02.751233	2020-07-06 20:08:02.751244	1
11	2	commodo-consequatur	Commodo consequatur	Harum dicta autem of	2020-07-06 20:08:02.751233	2020-07-06 20:08:02.751244	1
12	1	test222	My First test ARTICLE	Laboris dolore conse	2020-07-06 20:08:02.751233	2020-07-06 20:08:02.751244	1

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

None

```
SELECT u2.username, COUNT(article.author_id) AS [Number of articles]
FROM userprofile u
INNER JOIN article
ON u.id = article.author_id
INNER JOIN users u2
ON u.user_id = u2.id
GROUP BY u2.username;
```

Screenshot of the result:

The screenshot shows a database interface with a title bar 'users 1'. The main area displays a grid of data with two columns: 'username' and 'Number of articles'. The data is as follows:

	username	Number of articles
1	1test	12
2	2test	5
3	3test	2
4	4test	1
5	docker	1
6	test	1
7	testttt	2

At the bottom, there are various toolbar icons and status information like 'CET | en | Writable' and '25-01-08 at 16:46:38'.

4. Select all **users** who have **favorite** articles. Print **username** and **article\_title** columns.  
Command:

None

```
SELECT u2.username, a.title AS article_title
FROM users u2
INNER JOIN userprofile u3
ON u2.id = u3.user_id
INNER JOIN favoritor_assoc fa
ON u3.id = fa.favoriter
INNER JOIN article a
ON a.id = fa.favorited_article;
```

## Screenshot of the result:

The screenshot shows a database grid interface with the following data:

Grid	username	article_title
1	2test	My First test ARTICLE
2	3test	Voluptatem Soluta a
3	4test	My First test ARTICLE
4	test	My First test ARTICLE
5	testttt	Commodo consequatur

Below the grid, there is a toolbar with various icons and a status bar showing the date and time.