

SQL

SQL, or Structured Query Language, is a language to talk to databases. It allows you to select specific data and to build complex reports. Today, SQL is a universal language of data. It is used in practically all technologies that process data.

SAMPLE DATA

id	name	population	rating
1	France	65000000	4.50000
2	Germany	82000000	4.70000

id	country_id	population	rating
1	France	1	4.50000
2	Germany	2	4.70000

QUERYING SINGLE TABLE

Fetch all columns from the country table:

```
SELECT *
FROM country;
```

Fetch id and name columns from the city table:

```
SELECT id, name
FROM city;
```

Fetch city names sorted by the rating column in the default ASCending order:

```
SELECT name
FROM city
ORDER BY rating DESC;
```

Fetch city names sorted by the rating column in the DESCending order:

```
SELECT name
FROM city
ORDER BY rating DESC;
```

ALIASES

COLUMNS

```
SELECT name AS city_name
FROM city;
```

TABLES

```
SELECT co.name, ci.name
FROM city ci
JOIN country co
ON ci.country_id = co.id;
```

FILTERING THE OUTPUT

COMPARISON OPERATORS

Fetch names of cities that have a rating above 3:

```
SELECT name
FROM city
WHERE rating > 3;
```

Fetch names of cities that are neither Berlin nor Madrid:

```
SELECT name
FROM city
WHERE name != 'Berlin'
AND name != 'Madrid';
```

TEXT OPERATORS

Fetch names of cities that start with a 'P' or end with an 'y':

```
SELECT name
FROM city
WHERE name LIKE 'P%'
OR name LIKE '%y';
```

Fetch names of cities that start with any letter followed by 'able' (like Dublin in Ireland or Lublin in Poland):

```
SELECT name
FROM city
WHERE name LIKE '%_able';
```

OTHER OPERATORS

Fetch names of cities that have a population between 500K and 1M:

```
SELECT name
FROM city
WHERE population BETWEEN 500000 AND 1000000;
```

Fetch names of cities that don't have a rating value:

```
SELECT name
FROM city
WHERE rating IS NOT NULL;
```

Fetch names of cities that are in countries with IDs 1, 4, 5, or 8:

```
SELECT name
FROM city
WHERE country_id IN (1, 4, 5, 8);
```

QUERYING MULTIPLE TABLES

INNER JOIN

JOIN or explicitly **INNER JOIN** returns rows that have matching values in both tables.

```
SELECT city.name, country.name
FROM city
JOIN country
ON city.country_id = country.id;
```

City			Country	
id	name	country_id	id	name
1	Paris	1	1	France
2	Berlin	2	2	Germany
3	Vienna	4	3	Austria

LEFT JOIN

LEFT JOIN returns all rows from the left table with corresponding rows from the right table. If there's no matching row, **NULL** is returned as values from the second table.

```
SELECT city.name, country.name
FROM city
LEFT JOIN country
ON city.country_id = country.id;
```

city			country	
id	name	country_id	id	name
1	Paris	1	1	France
2	Berlin	2	2	Germany
3	Vienna	4	NULL	NULL

RIGHT JOIN

RIGHT JOIN returns all rows from the right table with corresponding rows from the left table. If there's no matching row, **NULL** is returned as values from the left table.

```
SELECT city.name, country.name
FROM city
RIGHT JOIN country
ON city.country_id = country.id;
```

city			country	
id	name	country_id	id	name
1	Paris	1	1	France
2	Berlin	2	2	Germany
NULL	NULL	NULL	3	Austria

FULL JOIN

FULL JOIN or explicitly **FULL OUTER JOIN** returns all rows from both tables - if there's no matching row in the second table, **NULL** is returned.

```
SELECT city.name, country.name
FROM city
FULL (OUTER) JOIN country
ON city.country_id = country.id;
```

cities			countries	
id	name	country_id	id	name
1	Paris	1	1	France
2	Berlin	2	2	Germany
3	Vienna	4	NULL	NULL
NULL	NULL	NULL	3	Austria

CROSS JOIN

CROSS JOIN returns all possible combinations of rows from both tables. There are two syntaxes available.

```
SELECT city.name, country.name
FROM city
CROSS JOIN country;
```

```
SELECT city.name, country.name
FROM city, country;
```

city			country	
id	name	country_id	id	name
1	Paris	1	1	France
1	Paris	2	2	Germany
2	Berlin	1	1	France
2	Berlin	2	2	Germany

NATURAL JOIN

NATURAL JOIN will join tables by all columns with the same name.

```
SELECT city.name, country.name
FROM city
NATURAL JOIN country;
```

CITY		COUNTRY	
country_id	id	country	id
1	1	Paris, Berlin	1
2	2	Berlin, City	2
3	3	Vienna	3
4	4	Vienna	4

NATURAL JOIN uses these columns to match rows: **city_id**, **city_name**, **country_id**, **country_name**. **NATURAL JOIN** is very rarely used in practice.

Sql Beginners Guide

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