

# SQL Basics Cheat Sheet

## 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	name	country_id	population	rating
1	Paris	1	2100000	4
2	Berlin	2	3500000	4

## 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 ASC (ascending) order:

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

Fetch city names sorted by the rating column in the DESC (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 AS ci
JOIN country AS co
ON ci.country_id = co.id;
```

## FILTERING THE OUTPUT

### COMPARISON OPERATORS

Fetch names of cities that have a rating above 4:

```
SELECT name
FROM city
WHERE rating > 4;
```

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 'dder' (like London in England or Lublin in Poland):

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

### 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 miss a rating value:

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

Fetch names of cities that are in countries with IDs 1, 4, 7, or 8:

```
SELECT name
FROM city
WHERE country_id IN (1, 4, 7, 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
[INNER] 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	Moscow	3	3	Russia

### 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** are 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	Moscow	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** are 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	Russia

### 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** are returned.

```
SELECT city.name, country.name
FROM city
FULL [OUTER] 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	Moscow	4	NULL	NULL
NULL	NULL	NULL	3	Russia

### CROSS JOIN

**CROSS JOIN** returns all possible combinations of rows from both tables. There are two synonyms 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	name	country_id	name	id
1	1	Paris	1	Paris	1
2	1	Berlin	1	Berlin	1
3	2	Moscow	2	Moscow	2
4	2	Moscow	2	Moscow	2

**NATURAL JOIN** is used these columns to match rows: **city\_id**, **city\_name**, **country\_id**, **country\_name**. **NATURAL JOIN** is very rarely used in practice.

# Ms Sql A Beginners Guide

**Liyong Dong**



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