

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	Paris	2100000	4.5
2	Berlin	3700000	4.2

id	country_id	country_name	population	rating
1	1	France	2100000	4.5
2	2	Germany	3700000	4.2

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_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_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_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_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_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;
```

country_id	id	name	country_name	id
1	1	Paris	Paris	1
2	1	Berlin	Berlin	1
3	2	Moscow	Moscow	2
4	2	Moscow	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.

Advanced Pl Sql Quick Guide

Christian Drosten



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