

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	4.500000
2	Germany	82000000	4.700000

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.

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JE Gale



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web to place the nut on the spindle or tighten or loosen the nut on the spindle while the keeper is installed inside the nut doing so may deform the keeper and allow the nut to unthread during operation spindle thread damage could also occur leaving the axle unusable do not bend or manipulate keyway tang in any way

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web the spindle nut system if the locking device can not be engaged advance the spindle nut until the lock can be engaged double jam nut systems torque the inner spindle nut to 300 ft lbs while rotating the hub advance the inner nut as necessary to engage the locking ring do not back off the spindle nut install the

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web step 1 bearing lubrication lubricate the wheel bearing with clean lubricant of the same type used in the axle sump or hub assembly step 2 initial adjusting nut torque tighten the adjusting nut to torque of 200 ft lbs while rotating the wheel step 3 initial back off back the adjusting nut off one full turn step 4

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