

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, 3, or 8:

```
SELECT name
FROM city
WHERE country_id IN (1, 4, 3, 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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Scott Urman



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Table of Contents Advanced Pl Sql Quick Guide

1. Understanding the eBook Advanced Pl Sql Quick Guide
 - The Rise of Digital Reading Advanced Pl Sql Quick Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Pl Sql Quick Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Advanced Pl Sql Quick Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Pl Sql Quick Guide
 - Personalized Recommendations
 - Advanced Pl Sql Quick Guide User Reviews and Ratings
 - Advanced Pl Sql Quick Guide and Bestseller Lists

5. Accessing Advanced PL Sql Quick Guide Free and Paid eBooks
 - Advanced PL Sql Quick Guide Public Domain eBooks
 - Advanced PL Sql Quick Guide eBook Subscription Services
 - Advanced PL Sql Quick Guide Budget-Friendly Options
6. Navigating Advanced PL Sql Quick Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Advanced PL Sql Quick Guide Compatibility with Devices
 - Advanced PL Sql Quick Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Advanced PL Sql Quick Guide
 - Highlighting and Note-Taking Advanced PL Sql Quick Guide
 - Interactive Elements Advanced PL Sql Quick Guide
8. Staying Engaged with Advanced PL Sql Quick Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Advanced PL Sql Quick Guide
9. Balancing eBooks and Physical Books Advanced PL Sql Quick Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Advanced PL Sql Quick Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Advanced PL Sql Quick Guide
 - Setting Reading Goals Advanced PL Sql Quick Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Advanced PL Sql Quick Guide
 - Fact-Checking eBook Content of Advanced PL Sql Quick Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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