

SQL Window Functions Cheat Sheet

WINDOW FUNCTIONS

compute their result based on a sliding window frame, a set of rows that are somehow related to the current row.



AGGREGATE FUNCTIONS VS. WINDOW FUNCTIONS

unlike aggregate functions, window functions do not collapse rows.



SYNTAX

```
SELECT city, month,
       sum(sales) OVER (
         PARTITION BY city
         ORDER BY month
         RANGE UNBOUNDED PRECEDING) total
FROM sales;
```

```
SELECT rownum_1, rownum_2,
       window_function() OVER (
         PARTITION BY ...
         ORDER BY ...
         window_frame) window_column_alias
FROM table_name;
```

Named Window Definition

```
SELECT country, city,
       rank() OVER country_sales_rank
FROM sales
WHERE month BETWEEN 1 AND 6
GROUP BY country, city
HAVING sum(sales) > 10000
WINDOW country_sales_rank AS (
  PARTITION BY country
  ORDER BY sum(sales) DESC)
ORDER BY country, city;
```

```
SELECT rownum_1, rownum_2,
       window_function() OVER window_name
FROM table_name
WHERE ...
GROUP BY ...
HAVING ...
WINDOW window_name AS (
  PARTITION BY ...
  ORDER BY ...
  window_frame)
ORDER BY ...;
```

PARTITION BY, ORDER BY, and window frame definition are all optional.

LOGICAL ORDER OF OPERATIONS IN SQL

- | | |
|------------------------|---------------------------|
| 1. FROM, JOIN | 1. SELECT |
| 2. WHERE | 8. DISTINCT |
| 3. GROUP BY | 9. UNION/INTERSECT/EXCEPT |
| 4. aggregate functions | 10. ORDER BY |
| 5. HAVING | 11. OFFSET |
| 6. window functions | 12. LIMIT/PAGE/TOP |

You can use window functions in SELECT and ORDER BY. However, you can't put window functions anywhere in the FROM, WHERE, GROUP BY, or HAVING clauses.

PARTITION BY

divides rows into multiple groups, called partitions, to which the window function is applied.

Partition by city

rownum	city	month
1	Paris	1
2	Paris	2
3	Paris	3
4	Paris	4
5	Paris	5
6	Paris	6
7	Paris	7
8	Paris	8
9	Paris	9
10	Paris	10
11	Paris	11
12	Paris	12
13	London	1
14	London	2
15	London	3
16	London	4
17	London	5
18	London	6
19	London	7
20	London	8
21	London	9
22	London	10
23	London	11
24	London	12

Default Partition with no PARTITION BY clause, the entire result set is the partition.

ORDER BY

specifies the order of rows in each partition to which the window function is applied.

Partition by city ORDER BY month

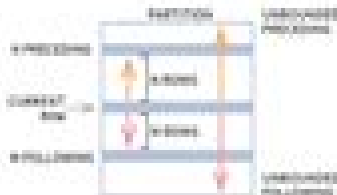
rownum	city	month
100	Paris	1
101	Paris	2
102	Paris	3
103	Paris	4
104	Paris	5
105	Paris	6
106	Paris	7
107	Paris	8
108	Paris	9
109	Paris	10
110	Paris	11
111	Paris	12
200	London	1
201	London	2
202	London	3
203	London	4
204	London	5
205	London	6
206	London	7
207	London	8
208	London	9
209	London	10
210	London	11
211	London	12

Default ORDER BY with no ORDER BY clause, the order of rows within each partition is arbitrary.

WINDOW FRAME

is a set of rows that are somehow related to the current row. The window frame is evaluated separately within each partition.

ROWS | RANGE | GROUPS BETWEEN lower_bound AND upper_bound



The bounds can be any of the following:

- UNBOUNDED PRECEDING
- PRECEDING
- CURRENT ROW
- FOLLOWING
- UNBOUNDED FOLLOWING

The lower_bound must be BEFORE the upper_bound

Rows between 1 preceding and 1 following

city	month	sales
Paris	1	1
Paris	2	2
Paris	3	3
Paris	4	4
Paris	5	5
Paris	6	6
Paris	7	7
Paris	8	8
Paris	9	9
Paris	10	10
Paris	11	11
Paris	12	12
London	1	1
London	2	2
London	3	3
London	4	4
London	5	5
London	6	6
London	7	7
London	8	8
London	9	9
London	10	10
London	11	11
London	12	12

Rows before the current row and 1 row after the current row

Rows between 1 preceding and 1 following

city	month	sales
Paris	1	1
Paris	2	2
Paris	3	3
Paris	4	4
Paris	5	5
Paris	6	6
Paris	7	7
Paris	8	8
Paris	9	9
Paris	10	10
Paris	11	11
Paris	12	12
London	1	1
London	2	2
London	3	3
London	4	4
London	5	5
London	6	6
London	7	7
London	8	8
London	9	9
London	10	10
London	11	11
London	12	12

Values in the range between 1 and 1 ORDER BY month with a single expression

Groups between 1 preceding and 1 following

city	month	sales
Paris	1	1
Paris	2	2
Paris	3	3
Paris	4	4
Paris	5	5
Paris	6	6
Paris	7	7
Paris	8	8
Paris	9	9
Paris	10	10
Paris	11	11
Paris	12	12
London	1	1
London	2	2
London	3	3
London	4	4
London	5	5
London	6	6
London	7	7
London	8	8
London	9	9
London	10	10
London	11	11
London	12	12

1 group before the current row and 1 group after the current row regardless of the rows

As of 2021, GROUPS is only supported in PostgreSQL 11 and up.

ABBREVIATIONS

Abbreviation	Meaning
UNBOUNDED PRECEDING	BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW
PRECEDING	BETWEEN PRECEDING AND CURRENT ROW
CURRENT ROW	BETWEEN CURRENT ROW AND CURRENT ROW
FOLLOWING	BETWEEN CURRENT ROW AND FOLLOWING
UNBOUNDED FOLLOWING	BETWEEN CURRENT ROW AND UNBOUNDED FOLLOWING

DEFAULT WINDOW FRAME

When no ORDER BY is specified, the default is RANGE BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW.
Without ORDER BY, the frame specification is equal to RANGE BETWEEN UNBOUNDED PRECEDING AND UNBOUNDED FOLLOWING.

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Jin-Ying Zhang



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SQL Administrator, 1993 **Microsoft SQL Server 7 on Site** Robert C. Skoglund, 1999-01-31 From the publisher of the bestselling Exam Cram titles comes a visual decision guide that covers all key aspects of getting SQL 7 up and running quickly and efficiently The CD ROM includes SQL Server and Windows NT Benchmarking tools source code and database design and management tools **SQL Object Manager**, 1993 **Microsoft SQL Server Resource Guide**, 1997 SQL Chris Fehily, 2010-04-16 SQL is a standard interactive and programming language for querying and modifying data and managing databases This task based tutorial and reference guide takes the mystery out learning and applying SQL After going over the relational database model and SQL syntax in the first few chapters veteran author Chris Fehily immediately launches into the tasks that will get readers comfortable with SQL In addition to covering all the SQL basics this thoroughly updated reference contains a wealth of in depth SQL knowledge and serves as an excellent reference for more experienced users *Practical Microsoft SQL Server 7* Brad McGehee, Rob Kraft, 1999 Detailed no nonsense instructions provide beginners with information on how to install operate and maintain Microsoft SQL Server 7 Microsoft SQL Server 7.0 Microsoft Corporation, 1999 This is one of four volumes that comprise the Microsoft BackOffice 4 5 Resource Kit Inside you ll find comprehensive information covering Book jacket **SQL Net for Windows NT User's Guide, Version 2.1** Oracle Corporation, 1994 **MICROSOFT SQL SERVER 2008 A BEGINNER'S GUIDE 4/E** Dusan Petkovic, 2008-07-15 Includes all new examples and a new practice database Previous editions sold 43 000 copies SQL: The Ultimate Beginner's Guide to Learn SQL Programming and Database Management Step-by-Step, Including MySql, Microsof John Russel, 2020-09-24 SQL Programming will allow you to successfully go from knowing absolutely nothing about SQL to being able to quickly create manage and organize a database **SQL Guide for Microsoft Access** Scorpio Digital Press, 2025-07-16 SQL Quickstart Guide SQL is the standard language used for retrieving and manipulating databases SQL stands for Structured Query Language It is one of the programming languages that is developed for managing data that is stored in a relational database management system RDBMS SQL language operates through the use of declarative statements by this access it ensures that the data is accurate and secure It also helps maintain the integrity of databases no matter their size SQL is widely used today across most web frameworks and database applications Understanding SQL gives you the liberty to explore data and make better decisions One of the benefits of learning SQL language is that you also learn concepts that are similar to nearly every RDBMS SQL will execute queries against a database SQL will get data from a database SQL will Insert records in a database SQL will upgrade records in a database SQL will erase records from a database SQL will build new databases SQL will build new tables in a database SQL will build keep procedures in a database SQL will build views in a database SQL will set authorizations on tables techniques and views SQL could be a customary Buy the book and learn the basics of SQL quickly

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