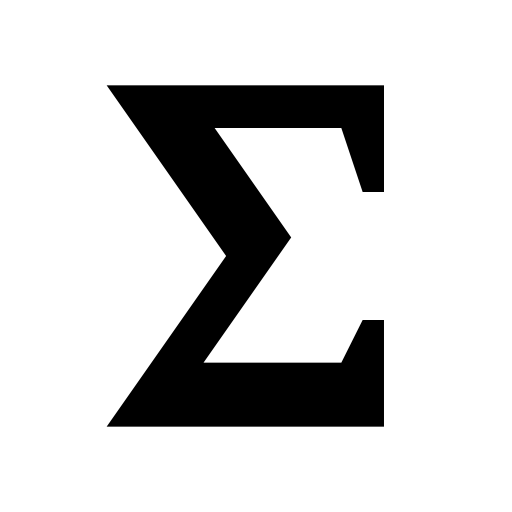
Windows Functions – OVER,

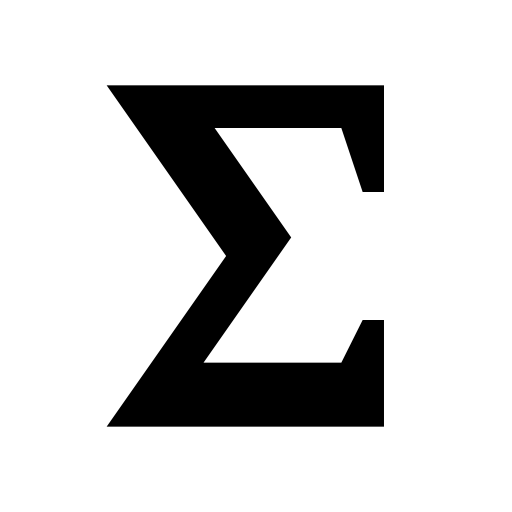
PARTION BY, ORDER BY

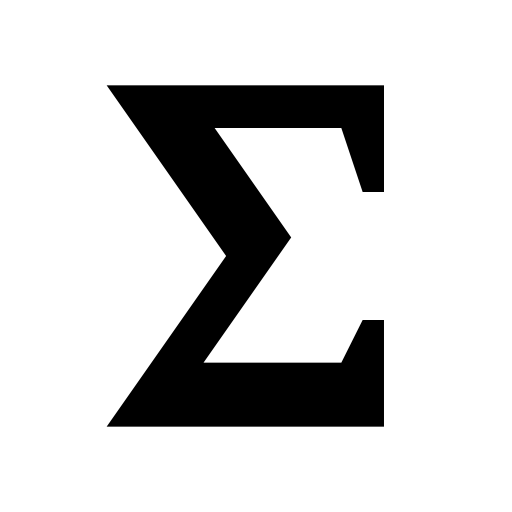
Aggregated Functions – Group by

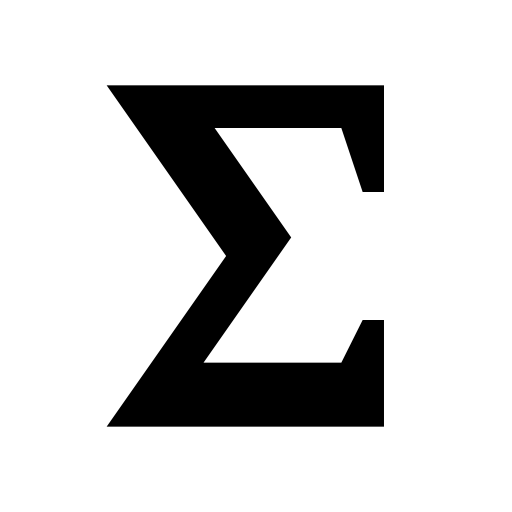
i.e. AVG(), Count() etc.

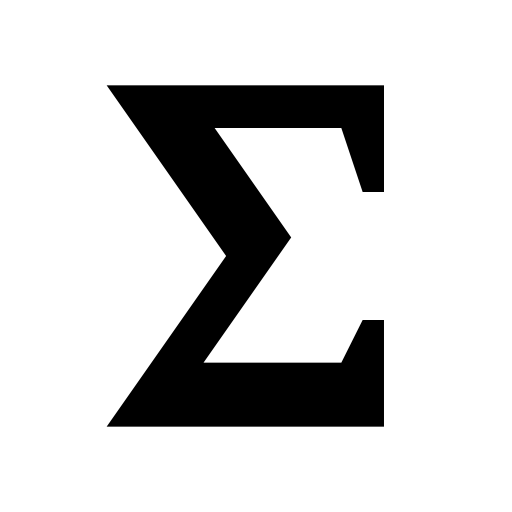
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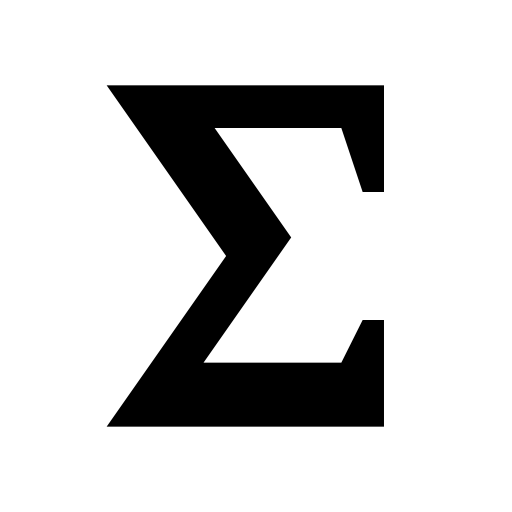


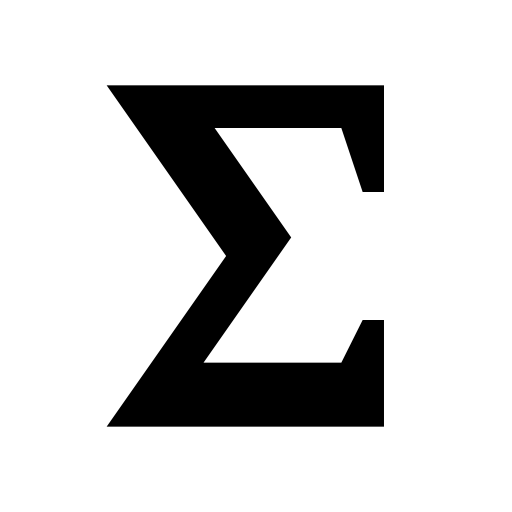


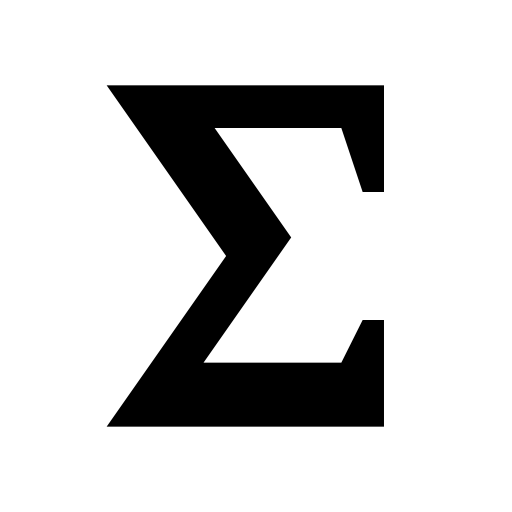


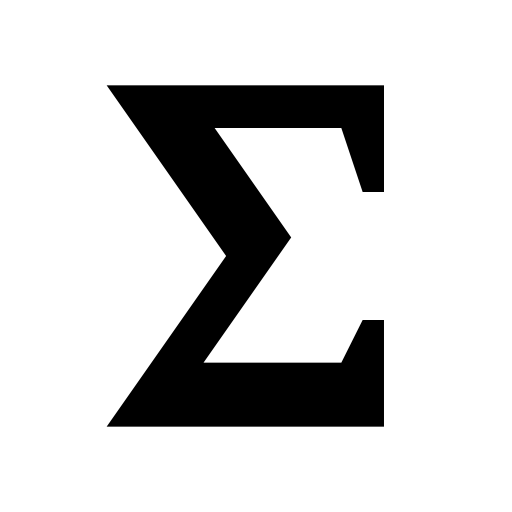


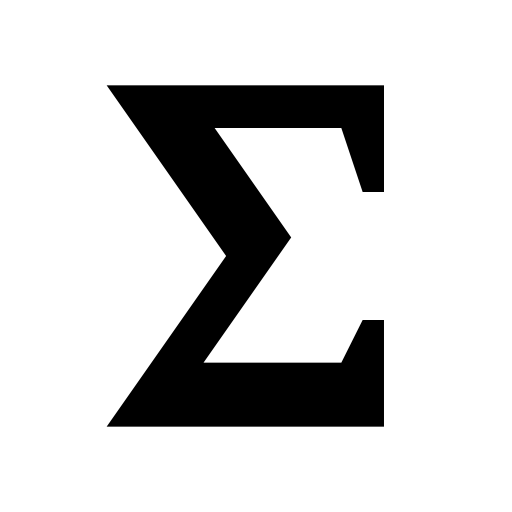












**Window Aggregated Function:**

|  |  |
| --- | --- |
| **Window Aggregated Function** | **Description** |
| AVG () | ***Returns:*** Average value for the input expression values.  Works with Numeric values and ignores NULL values. |
| COUNT () | ***COUNT (expression):*** Computes the number of rows with non-NULL values in a specific column or expression.  ***COUNT (\*):*** Counts all of the rows including rows contain nulls. |
| MIN () | ***Returns:*** Maximum value of the expression across all input values. Works with Numeric values and ignores NULL values. |
| MAX () | ***Returns:*** Minimum value of the expression across all input values. Works with Numeric values and ignores NULL values. |
| SUM () | ***Returns:*** Sum of the expression across all input values.  Works with numeric values and ignores NULL values. |

**Window Ranking Aggregated Function:**

|  |  |
| --- | --- |
| **Window Ranking Aggregated Function** | **Description** |
| RANK () | **Calculates:**   * Rank of a value in a group of values based on the ORDER BY expression in the OVER clause. * Each value is ranked within its partition. * Rows with equal values for the ranking criteria receive the same rank. * Tie or same rank skip the consecutive rank. * Example: Rank (): 1,1,3,4,5 |
| DENSE\_RANK () | **Calculates:**   * Rank of a value in a group of values based on the ORDER BY expression and the OVER clause. * Each value is ranked within its partition. * Rows with equal values receive the same rank. * Tie or same rank not skip the consecutive rank. * *Example:* Dense\_Rank(): 1,1,2,3,4 |
| CUME\_DIST () | **Calculates:**  Relative rank of the current row within a window partition.  **Formula:**  (Number Rows preceding or peer with Current Row)  (Total Rows in the window partition) |
| NTILE () | **Calculates:** Divides the rows for each window partition, as equally as possible, into a specified number of ranked groups.  ***Requires:*** the ORDER BY clause in the OVER clause. |
| PERCENT\_RANK () | **Calculates:** Percent rank of the current row using the following **formula:**  (x - 1)  (Number of Rows in window partition - 1)  where x = Rank of the current row. |
| ROW\_NUMBER () | **Calculates:**   * Ordinal number of the current row within its partition based on ORDER BY expression in the OVER clause. * Each value is ordered within its partition. * Rows with equal values for the ORDER BY expressions receive different row numbers non deterministically. |

Analytical functions:

|  |  |
| --- | --- |
| **Window Analytical Functions** | **Description** |
| LAG () | **Returns:**   * Value for the row ***before*** the current row in a partition. * If no row exists, null is returned. |
| LEAD () | **Returns:**   * Value for the row ***after*** the current row in a partition. * If no row exists, null is returned. |
| FIRST\_VALUE () | **Returns:**  ***First row value*** of the specified expression with respect to the window frame. |
| LAST\_VALUE () | **Returns:**  ***Last row value*** of the specified expression with respect to the window frame. |