Standard SQL CHEATSHEET (v.15/02/2022)

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| **STATEMENT/ CLAUSE** | | **DESCRIPTION** | | | |
| **SELECT** *(col. A, col. 8}*  **SELECT DISTINCT** *(col. A, col. 8}* | | Specifies which **columns** to be retrieved  Same as above, but forces **unique values** among ali combinations of columns extracted | | | |
| **FROM** *(table X) (tag Y)* | | Points **table(s)** to extract data from, columns included in SELECT statement must be available in table(s) selected | | | |
| **WHERE** *(cond. 1 AND/OR cond. 2}* | | lncludes conditions to **filter** data extracted from table(s), **before** performing any calculation | | | |
| **GROUP BY** *(col. A, col. 8}* | | This is relevant only when performing aggregations. **AII** dimensions included in the SELECT statement (i.e. everything that is notan aggregate function) must be placed here | | | |
| **HAVING** *(agg. cond. 1, agg. cond. 2}* | | Consist of conditions to **filter** output **after** performing calculations | | | |
| **ORDER BY** *(col. 1 ASC/DESC, col. 2 ASC/DESC)* | | Generates an order criteria for the output | | | |
| **LIMIT** *(n rows)* | | Restricts the output to the first n rows | | | |
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| **AGGREGATE FUNCTION** | **DESCRIPTION** | |  | **ARITHMETIC OPERATORS** | **DESCRIPTION** |
| **COUNT** *(col. A)*  **COUNT (DISTINCT** *col. A}* | Counts number in rows of column A Counts unique values in column A | |
| + | Add |
| **SUM** *(col. A)* | Adds up numeric values in column A | |  | Substract |
| **AVG** *(col. A}* | Calculates arithmetic mean to numeric values in column A | | / | Divide |
| **MAX** *(col. A)/* **MIN** *(col. A)* | Finds the max/min value in column A (numeric value/ alphabet) | | \* | Multiply |

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| **COMPARISON OPERATORS** | **DESCRIPTION** |
| = | Equal to |
| > | Greater than |
| < | Less than |
| >= | Greater than or equal to |
| *<=* | Less than or equal to |
| *<>* | Not equal to |

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| **LOGICAL OPERATORS** | **DESCRIPTION** |
| **AND** | TRUE if all conditions are met |
| **OR** | TRUE if at least one condition is met |
| **BETWEEN *X AND*** *Y* | TRUE if value within range |
| **NOT** | TRUE if condition is NOT met |
| **IN** *(X,Y,Z}* | TRUE if value is contained in list |
| **LIKE** *('pattern')* | TRUE if value matches pattern |

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| **LIKE OPERATOR PATTERN** | **DESCRIPTION** |  | **FUNCTION/ STATEMENT** | **DESCRIPTION** |
| LIKE **'a%'** | Any values that start with "a" |  | **DATE(year,** *month, day)* | Converts parameters into date |
| LIKE **'%a'** | Any values that end with "a" | **EXTRACT(date** *part* FROM col.A) | Extracts date part from field |
| LIKE **'%or%'** | Any values that have "or" in any position | **CASE**  **WHEN** cond.l **THEN** value x **WHEN** cond.2 **THEN** value y **ELSE** value z **END** | Goes through conditions and returns values when first condition is met |
| LIKE '\_r%' | Any values that have "r" in the second position |
| **COALESCE(col.** A, col. B) / **NVL(col.**  A, col. B) | These functions are identical, they return the first non null value in the list |
| LIKE **'a\_%'** | Any values that start with "a" and are at least 3 characters in length |
| LIKE **'a%o'** | Any values that start with "a" and ends with "o" |
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