Oracle SQL Function Cheat Sheet

Aggregate Functions

AVG ([DISTINCT|ALL] expression) [OVER (analytic_clause)]
COUNT ([* | [DISTINCT | ALL] expression) [OVER (analytic_clause)]
MAX ([DISTINCT|ALL] expression) [OVER (analytic_clause)]
MIN ([DISTINCT|ALL] expression) [OVER (analytic_clause)]
SUM ([DISTINCT|ALL] expression) [OVER (analytic_clause)]

Conversion Functions

BIN_TO_NUM (expression_list)
CAST (expression AS type_name)
CAST (MULTISET (subquery) AS type_name)
COALESCE (expr1, expr2, [expr…])
CHARTOROWID (input_char)
FROM_TZ (timestamp_value, timezone_value)
HEXTORAW (charvalue)
NUMTODSINTERVAL (number, interval_unit)
NUMTOYMINTERVAL (number, interval_unit)
RAWTOHEX (charvalue)
RAWTONHEX (raw)
ROWIDTOCHAR (rowid)
ROWIDTONCHAR (rowid)
SCN_TO_TIMESTAMP (number)
TIMESTAMP_TO_SCN (timestamp)
TO_BINARY_DOUBLE (expression [, format [, nlsparam]])
TO_CHAR(input_value, [format_mask], [nls_parameter])
TO_CLOB (input_string)
TO_DATE(charvalue, [format_mask], [nls_date_language])
TO_DSINTERVAL (input_string [, nlsparam])
TO_LOB (long_value)
TO_MULTI_BYTE (string)
TO_NCHAR (input_string)
TO_NCHAR (input_datetime [, format [,nlsparam]])
TO_NCHAR (number [, format [, nlsparam]])
TO_NCLOB (lob_value)
TO_NUMBER (input_value, [format_mask], [nls_parameter])
TO_SINGLE_BYTE (input_string)
TO_TIMESTAMP (input_string, [format_mask], [‘nlsparam’])
TO_TIMESTAMP_TZ (input_string [, format_mask] [, nls_param])
TO_YMINTERVAL (input_string)
UNISTR (string)

Date and Time Functions

ADD_MONTHS (input_date, number_months)
CURRENT_DATE
CURRENT_TIMESTAMP ([precision])
DBTIMEZONE
LAST_DAY (input_date)
LOCALTIMESTAMP (timestamp_precision)
MONTHS_BETWEEN (date1, date2)
NEW_TIME (input_date, timezone1, timezone2)
NEXT_DAY (input_date, weekday)
SESSIONTIMEZONE
SYS_EXTRACT_UTC (datetime_with_timezone_value)
SYSDATE
SYSTIMESTAMP
TZ_OFFSET (timezone_name | time_value | SESSIONTIMEZONE | DBTIMEZONE)

Environment Functions

CON_DBID_TO_ID (container_dbid)
CON_GUID_TO_ID (container_guid)
CON_NAME_TO_ID (container_name)
CON_UID_TO_ID (container_uid)
ORA_INVOKING_USER
ORA_INVOKING_USERID ( )
SYS_CONTEXT (namespace, parameter [, length])
SYS_GUID()
SYS_TYPEID (object_type_value)
UID
USER
USERENV (parameter)
SQLCODE
SQLERRM (error_number)

NLS Functions

NLS_CHARSET_DECL_LEN (byte_count, char_set_id)
NLS_CHARSET_ID (string_value)
NLS_CHARSET_NAME (number)

Numeric and Maths Functions

ABS (number)
ACOS (number)
ASIN (number)
ATAN2 (number1 [/|,] number2)
BITAND (expr1, expr2)
CEIL (input_val)
CORR (expression1, expression2)
COS (number)
COSH (number)
COVAR_POP (expression1, expression2) [OVER (analytic_clause)]
COVAR_SAMP (expression1, expression2) [OVER (analytic_clause)]
CUME_DIST (expression1, … expression_n) WITHIN GROUP (ORDER BY expression_order1, … expression_order_n)
CUME_DIST() OVER ([query_partition_clause] ORDER BY order_clause)
DENSE_RANK (expr, [expr(n)]) WITHIN GROUP (ORDER BY (order_expr [ASC|DESC] [NULLS FIRST|LAST])
DENSE_RANK() OVER ([query_partition_clause] order_by_clause)
EXP (number)
EXTRACT (date_component FROM expression)
FLOOR (input_number)
GREATEST (expr1, [expr_n])
LEAST (expr1, [expr_n])
LN (number)
LOG ([base,] expression)
MEDIAN (expr) [OVER (query_partition_clause)]
MOD (numerator, denominator)
ORA_HASH (expression [, max_bucket [, seed_value]])
PERCENT_RANK (expression) WITHIN GROUP (ORDER BY (expression_n [. DESC | ASC] [NULLS FIRST|LAST])
PERCENT_RANK () OVER ([query_partition_clause] order_by_clause)
PERCENTILE_CONT (expression) WITHIN GROUP (ORDER BY expression [ASC | DESC] [OVER (query_partition_clause)
PERCENTILE_DISC (expression) WITHIN GROUP (ORDER BY expression [ASC | DESC] [OVER (query_partition_clause)
POWER (n2, n1)
RANK (expr) WITHIN GROUP (ORDER BY (order_expr [NULLS FIRST/LAST]))
RANK () OVER ([query_partition_clause] order_by_clause)
REMAINDER (n2, n1)
ROUND (input, roundto)
ROWNUM
ROW_NUMBER () OVER ([query_partition_clause] order_by_clause)
SIGN (number)
SIN (number)
SINH (number)
SQRT (number)
STANDARD_HASH (expression [, method])
STDDEV ([DISTINCT | ALL] expression) [OVER (analytical_clause)]
STDDEV_POP (expression) [OVER (analytic_clause)]
STDDEV_SAMP (expression) [OVER (analytic_clause)]
TAN (number)
TANH (number)
TRUNC (date, fmt)
TRUNC (number, decimals)
VAR_POP (expression) [OVER (analytic_clause)]
VAR_SAMP (expression) [OVER (analytic_clause)]
VARIANCE ([DISTINCT | ALL] expression) [OVER (analytic_clause)]
WIDTH_BUCKET (expression, min_value, max_value, num_buckets)

String and Character Functions

ASCII (charvalue)
ASCIISTR (charvalue)
CHR (number_code [USING NCHAR_CS])
COMPOSE (input_value)
CONCAT(string1, string2)
CONVERT (input_char, dest_char_set, [source_char_set])
DECODE (expression, search, result [, search, result]… [,default])
DECOMPOSE (input_string [CANONICAL|COMPATIBILITY])
DUMP (expression [, return_format] [, start_position] [, length])
INITCAP (input_string)
INSTR (string, substring, [start_position], [occurrence])
INSTR2 (string, substring, [start_position], [occurrence])
INSTR4 (string, substring, [start_position], [occurrence])
INSTRB (string, substring, [start_position], [occurrence])
INSTRC (string, substring, [start_position], [occurrence])
LISTAGG (measure_expr [, delimiter]) WITHIN GROUP (order_by_clause) [OVER query_partition_clause]
LENGTH (string_value)
LENGTH2 (string_value)
LENGTH4 (string_value)
LENGTHB (string_value)
LENGTHC (string_value)
LOWER (input_string)
LPAD(expr, length [, pad_expr])
LTRIM(input_string, [trim_string])
LNNVL (condition)
NCHR (number_code)
NLS_INITCAP (input_char [, nlsparam])
NLS_LOWER (input_char [, nlsparam])
NLS_UPPER (input_char [, nlsparam])
NLSSORT (input_char [, nlsparam])
NANVL (check_value, replace_value)
NVL (check_value, replace_value)
NVL2 (value_to_check, value_if_not_null, value_if_null)
NULLIF (expr1, expr2)
REGEXP_COUNT (source_char, pattern [, position [, match_pattern [, subexpression]]])
REGEXP_INSTR (source_char, pattern [, position [, occurrence [, return_option [, match_pattern [, subexpression]]]]])
REGEXP_REPLACE (source_char, pattern [, replace_string [, position [, occurrence [, match_parameter]]]])
REGEXP_SUBSTR (source_char, pattern [, position [, occurrence [, match_parameter]]])
REPLACE (whole_string, string_to_replace, [replacement_string])
RPAD (expr, length [, pad_expr])
RTRIM (input_string, [trim_character])
SOUNDEX (string)
SUBSTR (string, start_position, [length])
TRANSLATE (source, from_string, to_string)
TRANSLATE (charvalue USING {CHAR_CS|NCHAR_CS})
TREAT (expression AS [REF] [schema.] type)
TRIM ([[LEADING | TRAILING | BOTH] trim_character FROM] trim_source)
UPPER (input_string)
VSIZE (expression)

Analytic Functions

FIRST_VALUE (expression [IGNORE NULLS]) OVER (analytic_clause)
LAST_VALUE (expression [IGNORE NULLS]) OVER (analytic_clause)
LAG (expression [, offset [, default]]) OVER ([query_partition_clause] order_by_clause)
LEAD (expression [, offset [, default]]) OVER ([query_partition_clause] order_by_clause)
NTILE (expression) OVER ([query_partition_clause] order_by_clause)
RATIO_TO_REPORT(expression) OVER ([query_partition_clause])

Other Functions

CASE [expression]
WHEN condition_1 THEN result_1
WHEN condition_n THEN result_n
ELSE result
END case_name

SYS_CONNECT_BY_PATH (column, character_separator)

Grouping Functions

GROUP_ID ( )
GROUPING (expression)
GROUPING_ID (expression1 [, expression_n])

Large Object Functions

BFILENAME (directory, filename)
EMPTY_BLOB ()
EMPTY_CLOB ()