Cheatography

SQL retrieval functions 2 Cheat Sheet

by chunyan via cheatography.com/53782/cs/14470/

Date functions

add_months (d, n)	Date d plus n months
months_between (d, e)	Months between dates d and e (d-e)
last_day (d)	Last day of the month containing date d
next_day (d, weekday)	the first weekday (mon, etc.) after d
new_time (d, z1, z2)	Convert date/time from time zone z1 to z2
round (d[, fmt])	d rounded on fmt; defualt midnitht
trunc (d[, fmt])	d truncated on fmt; defualt: midnight
extract (c from d)	Extract date/time component c from expression d

General functions

greatest (a, b, ...)	Greatest value
least (a, b, ...)	Least value
nullif (a, b)	NULL if a=b; otherwise a
coalesce (a, b, ...)	The first NOT NULL argument; NULL if all are NULL
NVL (x, y)	When x is NULL then y; else x
NVL2 (x, y, z)	When x is not NULL then y, else z
Case x ... end	**when a1 then b1 when a2 then b2... else y**
decode (x, a1, b1, a2, b2 ... [, y])	when x=a1 then b1 when x=a2 then b2 else y (or default: NULL)

Date functions: constants

date 'yyyy-mm-dd'	date '2018-01-25'
timestamp 'yyyy-mm-dd hh24:mi:ss.ffffff' [at time zone '...']	timestamp '2014-09-23 23:59:59.99999' at time zone 'CET'
timestamp 'yyyy-mm-dd hh24:mi:ss.ffffff {+|-}hh:mi'	timestamp '2014-08-21 23:59:59.99 -5:00'
interval 'expr' <qualifier>	interval '1' year; interval '1 2:3' day to minute

Sample function

sample (p)	p: percentage
seed (n)	n: No. of the seed

Conversion functions

to_char (n[,fmt])	Convert number n to a string
to_char (d[,fmt])	Convert date/time expression d to a string
to_number (t)	Convert string t to a number
to_binary_float (e[, fmt])	Convert expression e to a floating-point number
to_binary_double (e[, fmt])	Convert expression e to a double-precision, floating-point number
to_date (t[, fmt])	Convert string t to a date
to_yminterval (t)	Convert string to a YEAR TO MONTH interval
to_dsinterval (t)	Convert string t to a DAY TO SECOND interval
to_timestamp (t[, fmt])	Convert string to a timestamp
cast (e as t)	Convert expression e to datatype t

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"fmt' for date functions and conversion functions		
cc, scc	Century, with or without minus sign (BC)	Same
[s]yyyy, [s]year, yyy, yy, y	Year (in various appearances)	Same
iyyyy, iyy, iy, i	ISO year	Same
bc, ad		BC/AC indicator
q	Quarter	Same
month	Month (full name)	Month name, padded with spaces to length 9
mon, mm, rm	Month (abbreviated name, numeric, Roman numerals)	Same
iw, ww	(ISO) week number	Same
w	Day of the week	Week number within the month
ddd, dd, j	Day (of the year/mont-h/Julian day)	Same
day	Closest Sunday	Day name, padded with spaces to length 9
dy, d	Closest Sunday	Day name abbreviation (3 characters)
d	Closest Sunday	Day number within the week
am, pm		AM/PM indicator
hh,hh12, hh24	Hours	Same
mi	Minutes	Same
ss		Seconds
sssss		Seconds after midnight
**/., **		Punctuation characters
"..."		String between double quotes displayed within the date expression
fm		Fill mode toggle
th		Ordinal number

"fmt' for date functions and conversion functions (cont)	
sp	Spell-out number
thsp,spth	Spelled-ordinal number

The conversion function formats are case-sensitive.

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