



```
- ABS( " )) absolute value
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Operators
       x \leftarrow ACOS(x) arccosine, in radians e.g. 0.25 = ACOS(SQRT(0.5))/PI() d \leftarrow ADDDATE\{d, mdnyx\} d \leftarrow ADDDATE\{d, INTERVAL n interval(b)\} = DATE_ADD()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  b \leftarrow b = 1 assignment e.g. @now := NOW() loose | b \leftarrow b = b = 0 Reg. TRUE = (TRUE || FALSE) @ no concat binding b \leftarrow b = b = 0 AND e.g. FALSE = (TRUE && FALSE) & b \leftarrow b = 0 equality test e.g. b \leftarrow b = 0 and b = 0 equality test e.g. b \leftarrow b = 0 and b = 0 equality test e.g. b \leftarrow b = 0 and b = 0 equality test e.g. b \leftarrow b = 0 equ
                                                                                                                                                                                                                                                                                                                            omterval (6 never plural)
                                                                                                                                                                                                                                                                                                                                        YEAR
     d → ADDTIME(t, t)] e.g. '23:59:59' = ADDTIME(12:00:00', '11:59:59')

s → AES_DECRYPT(:, sker)] e.g. 'a' = AES_DECRYPT(AES_ENCRYPT(a', 'key'), 'key')

s → AES_ENCRYPT(:, sker)] e.g. 16 = LENGTH(AES_ENCRYPT(a', 'key'))

s → ASD b', e.g. FALSE = (TRUE AND FALSE)

s → ASCIN(:)] ASCII value of 1st character e.g. 32 = ASCII('') ← CHAR()

s → ASSIN(:x)] arcsine, in radians e.g. 0.25 = ROUND(ASIN(SORT(0.5))/PI(), 15)

s → ATAN(:x)] arctangent, in radians e.g. 0.25 = ATAN(1/PI()
                                                                                                                                                                                                                                                                                                                                        MONTH
                                                                                                                                                                                                                                                                                                                                        DAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   b = 2 equality test e.g. 4 = 2 + 2 a = N where (c = b = 2 + 2) NULL (c = N) NULL (c = N) NULL (c = N) on (c = 2 + 2) not equal e.g. (c = 2 + 2) (c = 2
                                                                                                                                                                                                                                                                                                                                         HOUR
                                                                                                                                                                                                                                                                                                                                         MINUTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a \leftarrow 2 \rightarrow 2 e.g. a < 2 \rightarrow 2 (courage)

a \leftarrow 2 \rightarrow 2 e.g. a < 2 \rightarrow 2 (time) > money

a \leftarrow 2 \rightarrow 2 e.g. a < 2 \rightarrow 2 (persistent)

a \leftarrow 2 \rightarrow 2 e.g. a < 2 \rightarrow 2 (persistent)
                                                                                                                                                                                                                                                                                                                                         MICROSECOND
                                                                                                                                                                                                                                                                                                                                         YEAR_MONTH
       x \leftarrow ATAN2(x, x)) 4-quadrant arctangent, in radians e.g. -0.75 = ATAN2(-1,-1)/PI() x \leftarrow AVG(-DISTINCT_{CO})] average of non-NULLs ###
                                                                                                                                                                                                                                                                                                                                         DAY_HOUR
                                                                                                                                                                                                                                                                                                                                         DAY_MINUTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   n \leftarrow n \mid n e.g. 0xFF = (0x55 \mid 0xAA)

n \leftarrow n \mid n e.g. 0x50 = (0xF0 \mid 0x55)
                    BENCHMARK( nTimes , :Expression ) e.g. BENCHMARK(1e3, COMPRESS(*))
                                                                                                                                                                                                                                                                                                                                         DAY SECOND
DAY_MICROSECOND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   n \leftarrow n << n) shift bits left (MSB) e.g. 32 = (1 << 5)
                                                                                                                                                                                                                                                                                                                                        HOUR_MINUTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  n \leftarrow n >> n shift bits right (LSB) e.g. 1 = (32 >> 5) n \leftarrow n - n e.g. 3 = (10 - 7) n \leftarrow n + n e.g. 4 = (2 + 2)
                                                                                                                                                                                                                                                                                                                                         HOUR_MICROSECOND
       n - BIT COUNT(n) count the 1 bits e.g. 4 = BIT COUNT(b'11011')
n - BIT LENGTH(x) usually 8*LENGTH(s) unless Unicode
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   n \leftarrow n + n e.g. 6 = (2 \cdot 3)

n \leftarrow n / n e.g. 4 = (12 / 3) similar to DIV

n \leftarrow n / n e.g. 3 = (123 \% 10) = MOD
                                                                                                                                                                                                                                                                                                                                         MINUTE_SECOND
                                                                                                                                                                                                                                                                                                                                        MINUTE_MICROSECOND
                      BIT_OR( cx )) bitwise OR of non-NULLs ##
                                                                                                                                                                                                                                                                                                                                         SECOND_MICROSECOND
       x \leftarrow BIT_XOR(c_X) bitwise XOR of non-NULLs ###
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   n - n ^ n) bitwise XOR e.g. 0xAA = (0x55 ^ 0xFF)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       n \leftarrow -n bitwise complement e.g. 7 = \sim (-8)

n \leftarrow -n negative e.g. 2 = (-3 + 5)

b \leftarrow 1b = NOT e.g. FALSE = (! TRUE)
                                                                                                                  ELSE : END) ala if(b){z} else if(b){z} ... else{z} in C
       : - CASE WHEN & THEN : ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tight L
                     CASE: WHEN : THEN : ... FLSE: END) ala switch(z) (case z: z; case z: z; ... default:z;) in C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               binding
       = CAST(: AS contrape?)) similar to CONVERT()
n → CEILING(x)) nearest integer greater e.g. ·? = CEIL(-7.9) © FLOOR()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Habitat Web Browser:
                                                               <u>USING €3</u> )) make ASCII e.g. '123' = CHAR(49,50,51) • ASCII()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           www.phpMyAdmin.net
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Habitat PHP:
s — CHAR( P<sub>0</sub>, Soliday )] make ASCII e.g. 123" = CHAR(49,50,51)  
ASCII()

n — CHAR LENGTH( s ) or CHARACTER LENGTH( s ) string length in characters, © OCTET_LENGTH(), LENGTH()

s — CHARSET( s )] e.g. "latin1" = CHARSET('s')

s — COLLESCE( :...) ) first non-NULL e.g. 3 = COALESCE(NULL,NULL,3,4,5)

6-6 — COERCIBILITY s )] 0 = rigid, 6 = loose e.g. 4 = COERCIBILITY(literal')

s — COLLATION( s )] e.g. "latin1_swedish_o" = COLLATION('a')

s — COLLATION( s )) e.g. "latin1_swedish_o" = COLLATION('a')

s — CONCAT( s ,...) ) string concatenation, e.g. "abc" = CONCAT('a', b',c')

s — CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.2.3" = CONCAT — WS( *systamion', s ,...) e.g. "1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $db = mysql_connect("host", "user", "password");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mysql_select_db("d", $db);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      $result = mysql_query("SELECT * FROM /; ", $db);
if ($result != = FALSE) {
    while (($row = mysql_fetch_assoc($result)) != NULL) {
                                                                                                                                                                                                                                                                                                  Habitat Shell: (command prompt or console window)
                                                                                                                                                                                                                                                                                                    mysql -u user -p password -e" SELECT * FROM d.s;"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           foreach($row as $colname => $value) {
   echo "$colname = "$value"\n";
                                                                                                                                                                                                                                                                  There's a shorter way with literals, e.g. 'xyz' = 'x' 'y' 'z'
                   CONNECTION_ID() unique among current connections

CONV(x, phactrom, nhaseto) e.g. 'fF = CONV(255',10,16)

CONVERT(: cust-syne0)

CONVERT(x USING co)) e.g. 'grek' = CHARSET(CONVERT('a' USING 'greek'))

CONVERT TZ(t, trition, trin) change timezone -E + W

COS(x)) cosine, in radians e.g. 0.5 = ROUND(COS(PI()/3), 15)

CONVERT DESTRUCT

COUNTY DESTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            echo "----\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                    MySQL Card
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               }
                                                                                                                                                                                                                                                                                                                       Functions
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                                                                                                                                                                                                                                                                                                                                          Ocast-type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OsFormat contains time and date codes, e.g. "%Y-%m-%d %H.%i.%s"
                                                                                                                                                                                                                                                                                                                                                            BINARY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            example
                                                                                                                                                                                                                                                                                                                                                                                           (n) charses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        example
                                                                                                                                            in radians e.g. 1 = ROUND(COT(PI()/4), 15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000-01-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1999-12-31
                     CHAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23:59:58.999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03:04:05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             equivalent to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                code
                                                                                                                                                                                                                                                                                                                                                      DATE
                                                                                                                                                                                                                                                                                                                                                    DATETIME
TIME
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LEFT(DAYNAME(d),3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LEFT(MONTHNAME(d),3)
                     CURRENT DATE(+) or CURDATE(+) e.g. 2019-12-31 = CURDATE()

CURRENT TIME(+) or CURTIME(+) similar to NOW() e.g. '23:59:59 = CURTIME()

CURRENT TIME(5TAMP(+)) current date and time = NOW()
                                                                                                                                                                                                                                                                                                                                                     DECIMAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12
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                         CURRENT USER(+) similar to USER()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %d
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LPAD(DAYOFMONTH(d).0.2)
     s — CURRENT USER(→) similar to USER()

s — DATABASE()) from last USE command e.g. 'databasename' = DATABASE()'

d — DATE( dr.) | date only e.g. '1999-12-31' = DATE(1999-12-31 00:00:00')

d — DATE( dr.) | date only e.g. '1999-12-31' = DATE(1999-12-31 00:00:00')

syntax error: CAST(z AS INT)

ok: CAST(z AS INT)

ok: CAST(z AS INT)

ok: CAST(z AS SIGNED INT)

syntax error: CAST(z AS INT)

ok: CAST(z AS SIGNED INT)

ok: CAST(z AS INT)

ok: CAST
                                                                                                                                                                                                                                                                                                                                                    UNSIGNED INTEGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %e
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LPAD(DAYOFYEAR(d),3,0)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11
                       DAYOFYEAR( d) Julian day, 1-366 + e.g. 365 = DAYOFYEAR(1999-12-31') = DAY(d)
DECODE( = , spansord) ) e.g. 'zebra' = DECODE(ENCODE('zebra', 'key'), 'key')
DEFAULT( c) ] corresponds to the DEFAULT value in cops0'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    December
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                January
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MONTHNAME(t)
                                                                                                                                                                                                                                                                                                                                      GROUP_CONCAT() is 2-dimensional;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LPAD(MONTH(d), 2.0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01
                                                                                                                                                                                                                                                                                                                                       For each row of a collapsed group,
                                                                                                                                                                                                                                                                                                                                       it makes this string: CONCAT(s, s,...)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PM
        x \leftarrow DEGREES(xrachons) skey (e.g. 45 = DEGREES(PI()/4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11:59:58 PM 03:04:05 AM DATE_FORMAT(d,'%h:%i:%s %p')
                                                                                                                                                                                                                                                                                                                                       Then those row strings are appended
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sec.
                      DES_ENCRYPT( s ___mkcy __)) e.g. 9 = LENGTH(DES_ENCRYPT('a', 'key'))
                                                                                                                                                                                                                                                                                                                                      together, with SEPARATOR between.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %5
      58
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                                                                                                                                                                                                                                                                                                                                                          SEPARATOR defaults to comma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %s
                                                                                                                                                                                                                                                                                                                                                          or turn off with SEPARATOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %T
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Friday
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sunday
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DAYNAME(d)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DAYOFWEEK(d)-1
                       EXPORT_SET( n, son, soff__isep__inhits___)) bitmask to string, e.g. '0:0:0:1' = EXPORT_SET(8,11,0',1',4) EXTRACT( mercal PROM d )) e.g. '12' = EXTRACT(MONTH FROM '1999-12-31')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %X%V 199952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                200001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       YEARWEEK(d,2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %x%v 199952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 199952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       YEARWEEK(d,3)
    ## STRACT( measure FROM d ) e.g. 12 = EXTRACT(MONTH FROM 1999-12-31)
## FIELD(z, zl, zl, m) table search, e-nr e.g. 10 = FIELD(z', 'A', 'B')  
## FIND IN SET(single, sel) e.g. 2 = FIND_IN_SET(two', one, two, three')
## FIOR(z) in nearest integer less e.g. -8 = FLOOR(-7.2)  
## CERNAT(x, netermals i) big numbers with commas e.g. 10,000.00 = FORMAT(1E4,2)
## FOUND ROWS() i e.g. SELECT SQL_CALC_FOUND_ROWS * FROM ** LIMIT** 1; SET @total = FOUND_ROWS();
## FROM_DAYS(networks other 0 \( AD \) incode date e.g. 2000-01-01 = FROM_DAYS(7304BS)
## ## FROM_UNIXTIMES (meanus other 19*0) idecode unix-epoch, & UNIX_TIMESTAMP(d)
## FROM_UNIXTIMESTAMP
## INDITIMESTAMP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %Y
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RIGHT(YEAR(d),2)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                96%
                                                                                                                                                                                                                                                                                                                                                                                                                            EUR'
                                                                                                                                                                                                                                                                                                                                                                  TIMESTAMP
                       FROM_UNIXTIME( nseconds_ofter_1978 , sFormor() ) unix-epoch to formatted-string
                                                                                                                                                                                                                                                                                                                                                                            DATE

s ← GET FORMAT(

                                                                                                                                                                                                                                                                                                                                                                                                                              'USA'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       J) e.g. %Y-%m-%d %H.%i.%s', readymade sFormat0
                     GET_LOCK( <a href="mailto:schooler.green:general-color:greatest">greatest( :...) © MAX(z)</a>) mutex, © RELEASE LOCK()

GREATEST( :...) © MAX(z)
                                                                                                                                                                                                                                                                                                                                                                             LAST_INSERT_ID( minkerd )) cops0 AUTO_INCREMENT, e.g. 8791 = LAST_INSERT_ID()
LEAST_IN_) | row-wise @ MIN(z)
LEFT( : ...) | row-wise @ MIN(z)
                                                                                                                                                                                                                                                                                                                                                                            LAST_DAY( // )) of the month e.g. '2000-02-29' = LAST_DAY('2000-02-01')
                                                                                                                                                                                                        DESC L
                                                                                                                                                  ORDER BY CX
                                                                                                                                                                                                                                                   SEPARATOR sep )) 111
                       GROUP_CONCAT( DISTINCT s...
       s = \text{HDX}(n) base-16 encode, e.g., F = \text{HEX}(15)

s = \text{HDX}(r) ASCII encode © UNHEX(s) e.g. '6162630A' = HEX('abc\n')

n = \text{HOUR}(r) hour of the day, 0-23 e.g. 23 = HOUR('23:59:59)

s = \text{HF}(s, zme, zfabe) chooser, ala (b 7 ztrue : ztalse) in C e.g. 'T = IF(FALSE,Y,F) b. : HNULL(z, zhaltSymbol,z) encodes NULL \rightarrow zhaltSymbol
                                                                                                                                                                                                                                                                                                                                                               s \leftarrow \text{LEFT}(s, nchor) left portion = SUBSTRING(s,1,nchar) e.g. 'abc' = LEFT('abcd',3)
                                                                                                                                                                                                                                                                                                                                                                           LENGTH( * *) bytes, e.g. 3 = LENGTH( abc) = OCTET_LENGTH() • CHAR_LENGTH()

LIKE **spatial** | ESCAPE **slash* | Coli compare, % is any string, _ any character, • REGEXP

LN( x *) logs(x) e.g. 1 = ROUND(LN(2.7182818284591), 13) = LOG(x)
                                                                                                                                                                                                                                                                                                                                                           s — LOAD_FILE(serremoth))
dt — LOCALTIMESTAMP()) = NOW()
NOT IN(:_)] set membership CScs e.g. TRUE = (99 IN (77.88,99))

n = \text{INET\_ATOM}(slPaskbess}) e.g. 0.01020304 = \text{INET\_ATON}(1.2.3.4)

s = \text{INET\_MTOA}(mlPaskbess}) e.g. 1.2.3.4' = \text{INET\_NTOA}(0.01020304)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            e.g. TRUE = ('springtime' LIKE '%ing%')
                                                                                                                                                                                                                                                                                                                                                              n - LOCATE( sShort, sLooping + R instart : )) o-kt string search, similar to POSITION()
                                                                                                                                                                                                                                                                                                                                                                    LOG( \( \frac{N \text{Poster}}{N \text{Monog}} \) e.g. 3 = ROUND(LOG(5,125), 15) e.g. 5 =

LOG10(x)\) log<sub>2</sub>(x) e.g. 1 = ROUND(LOG10(10), 15)

LOG2(x)\) log<sub>2</sub>(x) e.g. 5 = LOG2(32)

LOWER(x) or LCASE(x)\) all lower case

LPAD(x, manyer, xiller)\) pad left e.g. '—lefty' = LPAD(lefty, 7, '-')

LTRIM(x)\) remove leading spaces e.g. 'lefty' = LPAD(lefty)\) help:

\[ \frac{1}{2} 
     e.g. 5 = LOCATE('a', 'alpha', 2)
                                                                                                                                                                                                                                                                                                                                                                                     MySQL Card, page 3 January 2008 Edition MySQL 6, ISO/AHSI SQL:2003 holp:
```

```
d ← MAKEDATE( mear, mday )) e.g. '1999-12-31' = MAKEDATE(1999,365)

/ ─ MAKE_SET( n, s,,, )) bitmask to comma-list e.g. 'b,c' = MAKE_SET(6,'a',b',c') ← EXPORT_SET()

/ ─ MAKETIME[ nhour, nmm, nsec )) e.g. '23:59:59 = MAKETIME(23,59,59)

AGAINST(s IN BOOLEAN MODE IN NATURAL LANGUAGE MODE WITH QUERY EXPANSION
                                                                                                                                                                                                                                                                                                               [Data Types] symbols and literals
                                                                                                                                                                                                                                                                                                                                                          TRUE FALSE
                                                                                                                                                                                                                                                                                                                   b boolean
                                                                                                                                                                                                                                      I used on FULLTEXT column
                                                                                                                                                                                                                                                                                                                   n integer
                                                                                                                                                                                                                                                                                                                                                         0 -999 0xFFF x3c b'11010
                                                                                                                                                                                                                                                                                                                   x floating point
                                                                                                                                                                                                                                                                                                                                                         3.14159 1.5e2 (150) 5.0e-1 (1/2)
                  | MDS(s)| 128-bit hash_e.g. '0cc175b9c0f1b6a831c399e269772661' | WITH | MICROSECOND('23:59:59:000123') | MID(s_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1_sensions_1
                                                                                                                                                                                                                                                                                                                                                          "double" 'single' '\r\n\1\b\0\Z'
                                                                                                                                                                                                                                                                                                                       string Cc li or
                                                                                                                                                                                                                                                                      MySQL Card
                                                                                                                                                                                                                                                                                                                                                          '\'' "\"" '\\' 0x65000A x'1B5B'
                  utl8 unicode
                                                                                                                                                                                                                                                                                                                       binary blob CScs
                                                                                                                                                                                                     Functions M-Z
                                                                                                                                                                                                                                                                                                                                                         '1999-12-31'
                                                                                                                                                                                                                                                                                                                  d date or datetime
                                                                                                                                                                                                                                                                                                                  / time or datetime
                                                                                                                                                                                                                                                                                                                                                         23:59:59
                                                                                                                                                                                                                6 NULL is like a black hole. Almost any part
                                                                                                                                                                                                                                                                                                                  dr datetime
                                                                                                                                                                                                                                                                                                                                                          1999-12-31 23:59:59
                                                                                                                                                                                                                of an expression being NULL makes it all NULL.
                                                                                                                                                                                                                                                                                                                  = any type, value, or expression
        b — NOTE | 0.9. FACSE = (NOT TRUE)

th — NOW() | current date and time e.g. '2009-07-22 02:35:21' = NOW()

z \leftarrow NOULIF(z \in NollSymbol) | = IF(z = NollSymbol, NULL, z) | decodes zNollSymbol \rightarrow NULL

s \leftarrow OCT(n) | octal digit encode e.g. '400' = OCT(256)

n \leftarrow OCTET_LENGTH(s) | string length in bytes, = LENGTH(s), © CHAR_LENGTH()
                                                                                                                                                                                                                Some exceptions:
                                                                                                                                                                                                                                                      a < -> a a IS NULL
                                                                                                                                                                                                                                                           OsRegularExpression (only used in REGEXP or RLIKE comparison)
                                                                                                                                                                                                                                                             ^_
                                                                                                                                                                                                                                                                                                                                                   'enjoy' REGEXP ' ^ en'
                                                                                                                                                                                                                                                                                          starts with
    n — OCTET_LENGTH(s)] string length in bytes, = LENGTH(s), © CHAR_LENGTH()
s — OLD_PASSWORD(s)] 16-hear-digit hash e.g. '60671c896665c3fa' = OLD_PASSWORD(a')
b — b OR b] e.g. TRUE = (TRUE OR FALSE)
n — ORD(s)] value of 1st character (works for multi-byte) e.g. 65 = ORD('A') similar to ASCII()
s — PASSWORD(s)] 40-digit hash e.g. '*667F407DE7C6AD07358FA38DAED7828A72014B4E' = PASSWORD(a)
n — PERIOD_ADD(n)TTTAM, minorith(s)] e.g. 200101 = PERIOD_ADD(199912, 13)
n — PERIOD_DIFF(n)TTTAM(hote_n)TTTAM(hote_n)TTTAM(hote_n)TTTAM(hote_n)TTTAM(hote_n)TTTAM(hote_n)TTTAM(hote_n)TTTAM(hote_n)TTTAM(hote_n)TTTAM(hote_n)TTTAM(hote_n)
n — POSITION(sShort IN sLooping)] : search o-nr e.g. 3 = POSITION('p' IN 'alpha') similar to LOCATE()
x — POWEAR(x_symmorn)] x **Position(sshort IN sLooping) | x *
                                                                                                                                                                                                                                                                     -5
                                                                                                                                                                                                                                                                                          ends with
                                                                                                                                                                                                                                                                                                                                                   'enjoy' REGEXP 'joy's'
                                                                                                                                                                                                                                                                                                                                                'gestalt' REGEXP 'g.st'
                                                                                                                                                                                                                                                                                          any character
                                                                                                                                                                                                                                                                                          any number (0 or more)
                                                                                                                                                                                                                                                                                                                                                    heah' REGEXP 'ha*h'
                                                                                                                                                                                                                                                                     -7
                                                                                                                                                                                                                                                                                          optional (0 or 1)
                                                                                                                                                                                                                                                                                                                                          'regardless' REGEXP '(ir) ?regardless'
                                                                                                                                                                                                                                                                                          etc. (1 or more)
                                                                                                                                                                                                                                                                                                                                                      "toot" REGEXP "to + t"
                                                                                                                                                                                                                                                                                          exactly (n)
                                                                                                                                                                                                                                                                                                                                                     'boot' REGEXP 'bo{2}t'
                                                                                                                                                                                                                                                                                                                                              'shoooed' REGEXP 'sho {2,} ed'
                                                                                                                                                                                                                                                                                         at least (n or more)
                                                                                                                                                                                                                                                                       { , } range (n to n)
                                                                                                                                                                                                                                                                                                                                              'referrer' REGEXP 'refer {1,2}er'
                                                                                                                                                                                                                                                                                   -) either or
                                                                                                                                                                                                                                                                      - |-
                                                                                                                                                                                                                                                                                                                                            'image.gif REGEXP '(jpg | gif | png)$'
                  QUARTER(d)] of the year, 1-4 e.g. 4 = QUARTER(1999-12-31')

RADIANS(Maleyres) e.g. 0.25 = RADIANS(45)/PI()
                                                                                                                                                                                                                                                                                                                                                     'mad' REGEXP 'm [aeiou]d'
                                                                                                                                                                                                                                                                                          one of these characters
                                                                                                                                                                                                                                                             [-]
                   RAND( meed )) pseudorandom unpredictable 0 to 0.9999999
                                                                                                                                                                                                                                                                                          a character from X to X
                                                                                                                                                                                                                                                                                                                                                     'm6d' REGEXP 'm[a-z0-9]d'
         NOT
                                                                                                                                                                                                                                                                                          any character except
                                                                                                                                                                                                                                                                                                                                                      'max' REGEXP 'ma[ ^ aeiou]'
                                                                                                                                                                                                                                                             [[.newline.]] named-characters0
                                                                                                                                                                                                                                                              [[.IJ.]]
                                                                                                                                                                                                                                                                                                                                          '---\r\n---'REGEXP'[[.CR.]][[.LF.]]'
                                                                                                                                                                                                                                                                                          (gratuitously many)
                                                                                                                                                                                                                                                              [[.\n.]]
                                                                                                                                                                                                                                                                                                                                                'ABCxyz'REGEXP'^[[:alpha:]]+$'
                                                                                                                                                                                                                                                             ff:alpha:11 letter
                                                                                                                                                                                                                                                                                         lowercase letter
                                                                                                                                                                                                                                                                                                                                                'abcxyz'REGEXP'^[[:lower:]]+$'
                   RLIKE sRegularExpression() CoIi = REGEXP e.g. TRUE = ('wellspring' RLIKE 'spr.ng')
                                                                                                                                                                                                                                                             [[:lower:]]
                                                                                                                                                                                                                                                             [[:upper:]] uppercase letter
                                                                                                                                                                                                                                                                                                                                               'ABCXYZ'REGEXP ' ^ [[:upper:]] + $
         s \leftarrow \text{ROUND}(x \perp \text{indigits})) decimal formatter e.g. "2" = ROUND(1.899) e.g. "1.90" = ROUND(1.899,2)
                    ROW_COUNT()) affected by recent INSERT, DELETE, UPDATE command
                                                                                                                                                                                                                                                                                                                                      '0123456789' REGEXP ' ^ [ [:digit: ] ] + $'
                                                                                                                                                                                                                                                             [[:digit:]]
                   RPAD(s_marget_spiller)) pad right e.g. 'righty-' = RPAD('righty', 8, '-')
RTRIM(s)) remove trailing spaces e.g. 'righty' = RTRIM('righty')
SCHEMA(1) = DATABASE()
                                                                                                                                                                                                                                                                                                                                      '0123ABCdef REGEXP'^[[:xdigit:]]+$
                                                                                                                                                                                                                                                             [[:xdigit:]] hexadecimal digit
                                                                                                                                                                                                                                                                                                                                        '123ABCxyz'REGEXP ' ^ [[:alnum:]]+$'
                                                                                                                                                                                                                                                             [[:alnum:]] letter or digit
                                                                                                                                                                                                                                                                                                                                                             ''REGEXP'^[[:blank:]]+$
                  SECOND(1)) 0-59 e.g. 56 = SECOND(12:34:56)

SEC_TO_TIME( inSecondsSurvedIndingly ) | e.g. '23:59:59' = SEC_TO_TIME(86399) | © TIME_TO_SEC(1)

SESSION_USER()) = USER()
                                                                                                                                                                                                                                                             [[:blank:]]
                                                                                                                                                                                                                                                                                         space only
                                                                                                                                                                                                                                                                                                                                                 \r\n\t'REGEXP ' ^ [[:space:]]+$'
                                                                                                                                                                                                                                                                                         space or \r\n\t
                                                                                                                                                                                                                                                             [[:space:]]
                                                                                                                                                                                                                                                                                                                                                    \b\Z'REGEXP'^[[:cntrl:]]+5"
                                                                                                                                                                                                                                                                                         x'01' thru x'1P or x'7P
                                                                                                                                                                                                                                                             [[:cntrl:]]
                  SHA1(*) 340-hex-digit RFC-3174 checksum e.g. '86f7e437faa5a7fce15d1ddcb9eaeaea377667b8' = SHA(*) SIGN(*)) -1, 0, +1 signifying <0, =0, >0 e.g. -1 = SIGN(-9.9)

SIN(**) j sine, in radians e.g. 0.5 = ROUND(SIN(PI()/6), 15)

SLEEP(***neccont()*)
                                                                                                                                                                                                                                                                                                                                         *+,-/:;?@REGEXP*^[[:punct:]]+$
                                                                                                                                                                                                                                                                                         no control, letter,
                                                                                                                                                                                                                                                            [[:punct:]]
                                                                                                                                                                                                                                                                                                                                         <=>[\\]
                                                                                                                                                                                                                                                                                         number, nor space
       b \leftarrow_{s} SOUNDS LIKE s) e.g. TRUE = (Joannie SOUNDS LIKE Jon') similar to SOUNDEX() s \leftarrow_{s} SOUNDEX(s) spelling homogenizer e.g. SOUNDEX(Smith') = SOUNDEX(Schmidtty) similar to SOUNDS LIKE
                                                                                                                                                                                                                                                             [[:graph:]] no control, no space
                                                                                                                                                                                                                                                                                                                                       '@#12AByz'REGEXP'^[[:graph:]]+$
                   SPACE( n ) multiple spaces
                                                                                                                                                                                                                                                                                                                                       @#12AByz REGEXP '^[[:print:]]+$'
                                                                                                                                                                                                                                                             [[:print:]]
                                                                                                                                                                                                                                                                                       no control, yes space
                  d \leftarrow \frac{\text{SUBDATE}(d, |\text{INTERVAL}|n||mterval|^2)}{\text{substring}(s|\text{FOR}|ncher)} \text{ e.g. '1999-12-31 23:59:59'} = \text{SUBDATE}(2000-01-01 00:00:00', |\text{INTERVAL 1 SECOND}) = \text{DATE}_SUB()
s \leftarrow \frac{\text{SUBSTRING}(s|\text{FROM}|n||mterval|^2)}{\text{or SUBSTRING}(s|n||ncher)} \text{ or SUBSTRING}(s|n||ncher)
                                                                                                                                                                                                                                                                                                                             Data Conversion
                   SUBSTRING_INDEX( r , smark , R micords )) portion before mark e.g. 'a/b' = SUBSTRING_INDEX('a/b/c', '/', 2)
                                                                                                                                                                                                                                                                                                                                n-s+0
                                                                                                                                                                                                                                                                                                                                                                    n ← CAST(s AS INTEGER)
        ** SUBTIME(*,*) subtraction, times-of-day e.g. '00:00:01' = SUBTIME(*12:00:00', *11:59:59')

** ** **SUM(** DISTINCT c.t.) total of non-NULLs tilt

**n **— SYSDATE(*) e.g. 20091231235959 = SYSDATE(*) + 0 e.g. '2009-12-31 23:59:59' = CONCAT(SYSDATE(*)) similar to NOW(*)

**system_user(*) = User(*)
                                                                                                                                                                                                                                                                                                                                x-++ 0.0
                                                                                                                                                                                                                                                                                                                                                                    x- CAST(* AS DOUBLE)
                                                                                                                                                                                                                                                                                                                                 - CONCAT(n) s- CAST(n AS CHAR)
                                                                                                                                                                                                                                                                                                                                x = n + 0.0
                                                                                                                                                                                                                                                                                                                                                                    x- CAST(n AS DOUBLE)
         x \leftarrow \mathsf{TAN}(x)] radians e.g. 1 = \mathsf{ROUND}(\mathsf{TAN}(\mathsf{PI}()/4), 15)

t \leftarrow \mathsf{TIME}(x)] time only e.g. '23:59:30' = TIME('2000-01-01-23:59:30')

s \leftarrow \mathsf{TIMEDIFF}(sl.otc., tilloty)] time difference e.g. '00:00:01.000002' = TIMEDIFF('2000-01-01-00:00:01.000001', '1999-12-31-23:59:59.999999')
                                                                                                                                                                                                                                                                                                                                n \leftarrow CEILING(x)
                                                                                                                                                                                                                                                                                                                                n \leftarrow FLOOR(x)
                                                                                                                                                                                                                                                                                                                                                                    n -- CAST(x AS INTEGER)
                                                                                                                                                                                                                                                                                                                                 PHOUND(x)
                 -TIMESTAMP(M = \frac{tokM}{2}) e.g. "2000-01-01 00:00:00:00:000001" = TIMESTAMP("1999-12-31 23:59:59.99999", "00:00:00.000002")
                                                                                                                                                                                                                                                                                                                                n← TRUNCATE(x)
         d \leftarrow \text{TIMESTAMPADD}(interval(0, n, d)) e.g. '2000-01-07 23:59:59' = TIMESTAMPADD(WEEK, 1, '1999-12-31 23:59:59')
                  TIMESTAMPDIFF( interval 0, difficulty, editor) e.g. 2 = TIMESTAMPDIFF(SECOND, 1999-12-31 23:59:59, 2000-01-01 00:00:01)
         s - TRUNCATE(x indigits ) | toward zero e.g. "-7.00" = TRUNCATE(-7.009, 2) | BOTH | spattern |
s - UNCOMPRESS(;) | reverses COMPRESS(s) e.g. 'a lot to say' = UNCOMPRESS(compress(a lot to say')) |
s - UNCOMPRESSED_LENGTH(:) | room for UNCOMPRESS() e.g. 1 = UNCOMPRESSED_LENGTH(COMPRESS(a)) | Marks set |
s - UNHEX(s) | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 62630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 62630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 62630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 62630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 62630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 62630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 62630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 630\delta') | \overline{\text{WEX}(s)} \ | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 630\delta') | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 630\delta') | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 630\delta') | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 630\delta 630\delta') | hexadecimal string decode, e.g. 'abc\n' = UNHEX(6\delta 630\delta 
                   TRUNCATE(x * ndigits )) toward zero e.g. *-7.00" = TRUNCATE(-7.009, 2) 807H
                                                                                                                                                                                                                                                                                                                                             SUBSTRING_INDEX() demystified:
                                                                                                                                                                                                                                                                                                                                             Marks separate the string into 'words'.
                                                                                                                                                                                                                                                                                                                                             Returns n words, with n-1 marks.
                                                                                                                                                                                                                                                                                                                                             Use -n to count from the right.
                  -YALUES(c)) insertion candidates, used in ON DUPLICATE KEY UPDATE clause

-YAR_POP(c_X) or VARIANCE(c_X)) population standard variance of non-NULLs, the

-YAR_SAMP(c_X)] sample variance of non-NULLs the
                                                                                                                                                                                                                                             8 ways to number weeks: make 3 decisions Decision 3: Sun-Sat Decision 3: Mon-Sun
                                                                                                                                                                                                                                                                                                                                        SMTWTFS
                                                                                                                                                                                                                                             Decision 1:
                                                                                                                                                                                                                                                                              Decision 2:
                                                                                                                                                                                                                                                                                                                                                                                  MTWTFSS
         Year-Dominate:
                                                                                                                                                                                                                                                                              Week 1 is the 1st full week
                                                                                                                                                                                                                                                                                                                                     YEAR(d), WEEK(d,0) YEAR(d), WEEK(d,5)
                                                                                                                                                                                                                                              Natural Years
                                                                                                                                                                                                                                              fragmented weeks Week 1 has the 1st hump day YEAR(d), WEEK(d,4) YEAR(d), WEEK(d.1)
                                                                                                                                                                                                                                              Week-Dominate: Year starts Dec 29 - Jan 4
                                                                                                                                                                                                                                                                                                                                     YEARWEEK(d,6)
                                                                                                                                                                                                                                                                                                                                                                               YEARWEEK(d,3)
                                                                                                                                                                                                     REVERSE
                                                                                                                                                                                                                                              Full Weeks
                                                                                                                                                                           n-n
                  WEIGHT_STRING( #
                                                                                                                                                                                                                                                                                                                                     YEARWEEK(d,2)
                                                                                                                                                                                                                                                                                                                                                                               YEARWEEK(d.7)
                                                                                                                                                                                                                                              fudged years
                                                                                                                                                                                                                                                                              Year starts Jan 1 - Jan 7
             - h XOR h | boolean XOR e.g. TRUE = (FALSE XOR TRUE)
                                                                                                                                                                           e.g. WEIGHT_STR[NG('aciou')
         yEAR(d)) 4-digit year e.g. 1999 = YEAR(1999-12-31)

    WEIGHT_STRING('áéióú')

    YEARWEEK() is broken for nscheme 0.1,4,5 (mimics 2,3,6,7)

         s ← YEARWEEK( d , inchemed )) 6-digit year/week number.
                                                                                                                                                                                                                                           e.g. '199952' = YEARWEEK('1999-12-31', 2)
```

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