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SQL Functions –	Conditional	Statements
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Version 1.0

4 - CONDITIONAL STATEMENTS

4.1 Case When

The CASE statement chooses from a sequence of conditions, and executes a corresponding statement. The CASE statement evaluates a single expression and compares it against several potential values, or evaluates multiple Boolean expressions and chooses the first one that is TRUE.

Syntax:

```
CASE [ expression ]
WHEN condition_1 THEN result_1
WHEN condition_2 THEN result_2
...
WHEN condition_n THEN result_n
ELSE result
END
```

```
If expression = condition_1 then result_1 is displayed/returned else
if expression = condition_2 then result_2 is displayed/returned else
...
if expression = condition_n then result_n is displayed/returned else
result is displayed
```

Example:

Consider the table Date_Table



Display the Date in Date_table. Display the month in words.

```
select t.day,
      t.month,
      t.year,
      case t.month
               when 1 then 'January'
               when 2 then 'February'
                when 3 then 'March'
                when 4 then 'April'
               when 5 then 'May'
                when 6 then 'June'
               when 7 then 'July'
               when 8 then 'August'
               when 9 then 'September'
                when 10 then 'October'
                when 11 then 'November'
                when 12 then 'December'
                else 'Invalid Month'
      End As Month Name
from date table t;
```

```
select
t.day,
2 3 4 5 6 7 8 9 10 112 13 14 15 16 17 18
             t.month,
             t.year,
case t.month
                            when
                                      1
2
3
                                         then 'January'
                            when
when
                                         then
                                                   'February'
                                                   'March'
                                         then
                                                  'April'
'May'
                            when 4
                                         then
                            when 5
                                          then
                                                   'June'
                            when
                                      6
                                          then
                            when
                                          then
                                                   'July'
                            when 8
                                                   'August'
                                         then
                            when 8 then 'Hugust'
when 9 then 'September'
when 10 then 'October'
when 11 then 'November'
when 12 then 'December'
else 'Invalid Month'
             End As Month_Name
        from date_table t;
           DAY
                            MONTH
                                                   YEAR MONTH_NAME
             2
10
20
28
                                                   2013 January
2013 March
2013 June
                                    1368
                                                   2013 June
2013 August
```

4.2 Decode

The Decode function compares expression against each search value in order. If a match (equality) is found between the expression and the search argument then it returns the corresponding result. If there is no match, the default value is returned (if defined), else it returns NULL. This function has the functionality of an IF-THEN-ELSE statement.

Syntax:

Example:

Display the Date in Date table. Display the month in words.

```
select t.day, t.month, t.year,
Decode( t.month,
       '1', 'January',
       '2', 'February',
       '3', 'March',
       '4', 'April',
       '5', 'May',
       '6', 'June',
       '7', 'July',
       '8', 'August',
       '9', 'September',
       '10' , 'October',
       '11', 'November',
       '12', 'December',
       'Invalid Month') Month Name
from date_table t;
```