SQL BETWEEN Operator

SQL BETWEEN operator used for fetching within range data. SQL BETWEEN query simply a shorthand way of expressing an inclusive range comparison.

SQL Between operator support only range type value like number, dates, character. But not supporting boolean, string value range.

Syntax

Consider following syntax that help you to understanding BETWEEN clause,

```
SELECT * FROM table_name
    WHERE column_name
    BETWEEN lower_bound_value AND upper_bound_value;
```

When SQL query with BETWEEN clause parse into SQL Buffer, it will automatically expand out into separate comparison clauses.

```
SELECT * FROM table_name
    WHERE column_name <= lower_bound_value
    AND column_name >= upper_bound_value;
```

Example

In this example select all `users_info` table rows with range between no column value 1 to 5.

```
SQL> SELECT * FROM users_info WHERE no BETWEEN 1 AND 5;

 NO NAME                 ADDRESS                   CONTACT_NO       BIRTH_DATE
--- -------------------- ------------------------- ---------------- -------------
  1 Opal Kole            63 street Ct.             000-444-7847     1984-05-07
  2 Max Miller           41 NEW ROAD.              000-444-8292     1987-07-07
  3 Beccaa Moss          2500 green city.          000-444-7586     1992-01-15
  4 Paul Singh           1343 Prospect St          000-444-7585     1998-07-25
  5 Ken Myer             137 Clay Road          000-444-7528     2002-04-07
```

SQL BETWEEN clause with DATE

In this example select all `users_info` table rows with range between birth_date column value '1990-01-01' to '2000-12-31'.

```
SQL> SELECT * FROM users_info WHERE birth_date BETWEEN '1990-01-01' AND '2000-12-31';

 NO NAME                 ADDRESS                   CONTACT_NO       BIRTH_DATE
--- -------------------- ------------------------- ---------------- -------------
  3 Beccaa Moss          2500 green city.          000-444-7586     1992-01-15
  4 Paul Singh           1343 Prospect St          000-444-7585     1998-07-25
  6 Jack Evans           1365 Grove Way            000-444-8401     1993-04-24
  8 Gabe Hee             1220 Dallas Drive         000-444-5028     1992-08-27
  9 Ben Mares            101 Candy Road            000-444-5928     1999-11-24

5 rows selected.
```

SQL BETWEEN clause with NOT IN

In this example select all `users_info` table rows with range NOT IN between no column value 1 to 5. Use only NOT keyword instead of NOT IN.

```
SQL> SELECT * FROM users_info WHERE no NOT BETWEEN 6 AND 10;

 NO NAME                 ADDRESS                   CONTACT_NO       BIRTH_DATE
--- -------------------- ------------------------- ---------------- -------------
  1 Opal Kole            63 street Ct.             000-444-7847     1984-05-07
  2 Max Miller           41 NEW ROAD.              000-444-8292     1987-07-07
  3 Beccaa Moss          2500 green city.          000-444-7586     1992-01-15
  4 Paul Singh           1343 Prospect St          000-444-7585     1998-07-25
  5 Ken Myer             137 Clay Road             000-444-7528     2002-04-07

5 rows selected.
```