

Trending Now DSA Data Structures Algorithms Interview Preparation Data Science Topic-wise Practice J

SQL Server Mathematical functions (SQRT, PI, SQUARE, ROUND, CEILING & FLOOR)



Read Discuss Courses Practice

Mathematical functions are present in SQL server which can be used to perform mathematical calculations. Some commonly used mathematical functions are given below:

1. SQRT():

SQRT() function is the most commonly used function. It takes any numeric values and returns the square root value of that number.

Syntax:

```
SELECT SQRT(..value..)
```

Example:

```
SELECT SQRT(100)

SELECT PI()

SELECT SQUARE(25)
SELECT SQUARE(10.12)

SELECT ROUND(125.315, 2);
SELECT ROUND(125.315, 1);

SELECT CEILING(45.56)
SELECT FLOOR(45.56)

Results @ Messages (Noculum name) 10
```

2. PI(): There are calculations which require use of pi. Using pi() function, value of PI can be used anywhere in the query.

AD

Syntax:

```
SELECT PI()
```

Example:

```
SELECT SQRT(100)

SELECT PI()

SELECT SQUARE(25)
SELECT SQUARE(10.12)

SELECT ROUND(125.315, 2);
SELECT ROUND(125.315, 1);

SELECT CEILING(45.56)

SELECT FLOOR(45.56)

(No column name)
(No column name)
(No column name)
```

3. SQUARE(): SQUARE() function is used to find the square of any number.

Syntax:

```
SELECT SQUARE(..value..)
```

Example:

```
SELECT SQUARE (25)
SELECT SQUARE (10.12)

SELECT ROUND (125.315, 2);
SELECT ROUND (125.315, 1);

SELECT CEILING (45.56)
SELECT FLOOR (45.56)

3% - 4

Broats @ Messages
(No column name)
(No column name)
102.4144
```

4. ROUND(): ROUND() function is used to round a value to the nearest specified decimal place.

Syntax:

```
SELECT ROUND(..value.., number_of_decimal_places)
```

Example:

```
SELECT ROUND(125.315, 2);
SELECT ROUND(125.315, 1);

SELECT CEILING(45.56)

SELECT FLOOR(45.56)

75 % - 4

III Results (pil Messages (No column name) 1 125.320
```

5. CEILING() and FLOOR()

CEILING(): CEILING() function is used to find the next highest value (integer).

Syntax:

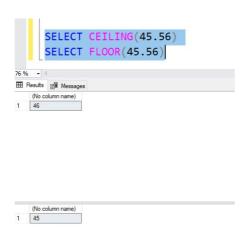
```
SELECT CEILING(..value..)
```

FLOOR(): FLOOR() function returns the next lowest value (integer).

Syntax:

```
SELECT FLOOR(..value..)
```

Example:



Last Updated: 21 Mar, 2018

16

Similar Reads