SQL → MASTER in 30 DAYS

Single Row functions

- Maths
- String
- Date time

Maths

① abs	⑤ ceil	⑨ Exp
② power	⑥ floor	⑩ log
③ round	⑦ mod	
④ Truncate	⑧ Sqrt	

① ABS →

-25 → 25

25 → 25

abs(-25)

Select clause Select abs(-25);

② power(2,3) → 8

Base 2, power 3 → 8

Base 3, power 2 → 9

Select power(2,3) → 8

Select pow(2,3) → 8

Select 2**3 → (8)

③ round

99.81% → 100.%

99.21% → 99.%

round(99.81(94), 2)

94 → no. of digits after decimal

0 to 100, so >or< 50.%

if the rounded digit is >50.%

we add +1 to the fwd. digit.

+1

99.81(94)

99.82

round(8943.2(141), !)

0 to 1000

8943.2

round (89.48, 0)

90

Case 2 ⇐ round round (894.34, -1)

8940

round (8949.214, -1)

8950

round (8946.1234, -3)

59000

(4) truncate()

↓

removing the digits w/o rounding

truncate (894.1249, 2)

894.12

truncate (894.1989, 2)

894.19

(5) ceil() 15.8 → 15 floor, 16 U

ceil (15.8) → 16

floor (15.8) → 15

(6) mod (n, m) → rem (leftovers)

15/2 → (1)

28/5 → (3)

mod (15, 2) → 1

mod (28, 5) → 3

(7) sqrt(49) → 7

(8) exp (2) → 7.389

(9) log(n) → Natural log base e

(ख) $\log(10) \rightarrow 2.3025\ldots$