

ORDERED SET FUNCTIONS

Syntax

- `select p, percentile_cont(p) within group
(order by x::float8) from`

WHAT

- Median
- Dense_rank
- Essentially, analytical tools
- User defined functions

Types

- Inverse Distribution Functions –
percentile_cont, percentile_disc
- Hypothetical Rank Functions --
dense_rank, percent_rank

Want Details?

- SQL Standard
- Needs another lightning talk

percentile_disc

- `select p, percentile_cont(p) within group (order by x::float8) from generate_series(1,5) x, (values (0::float8),(0.1),(0.25),(0.4),(0.5),(0.6),(0.75),(0.9),(1)) v(p) group by p order by p;`

percentile_disc example

p | percentile_cont

-----+-----

0	1
0.1	1.4
0.25	2
0.4	2.6
0.5	3
0.6	3.4
0.75	4
0.9	4.6
1	5

(9 rows)

dense_rank

- `select dense_rank(3) within group (order by x)
from (values (1),(1),(2),(2),(3),(3),(4)) v(x);`

dense_rank continued

3

(1 row)

Status

- Under review by Vik Fearing and Pavel Stehule
- Hope to go into 9.4