Ranking Data with Rank and Partition



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Overview



Sales Analysis

Based on

- Sales Volume

Consider the Different Functions

- ROW_NUMBER
- RANK
- DENSE_RANK
- NTILE

Examine the Usage of

- PARTITION BY
- ORDER BY



Partition By and Order By



OVER (Partition By

Order By

RANKING FUNCTIONS

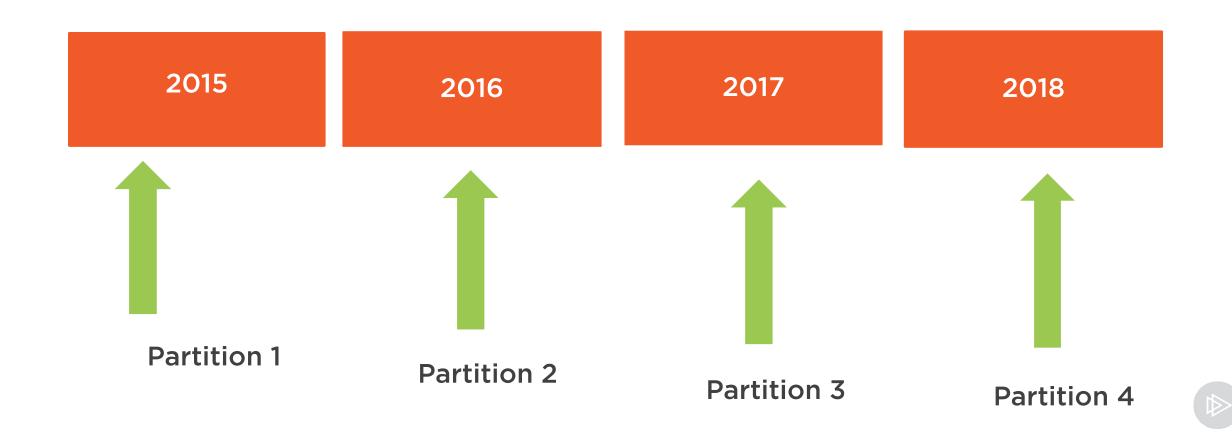
OVER What Dataset does the Function Operate Over

Partition By How the Data is Partitioned

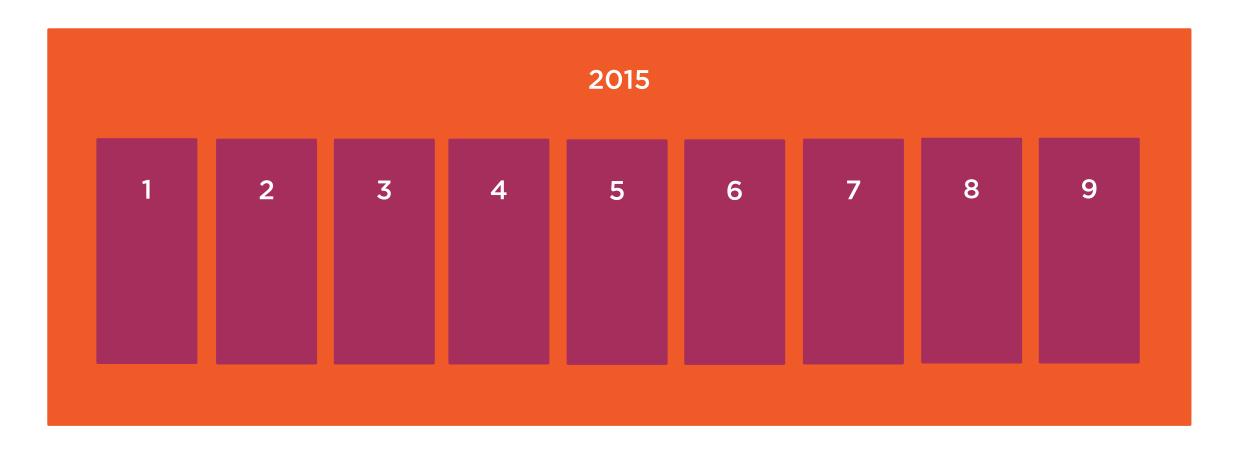
Order By How the Data is Pre Sorted



Partition By



Order By





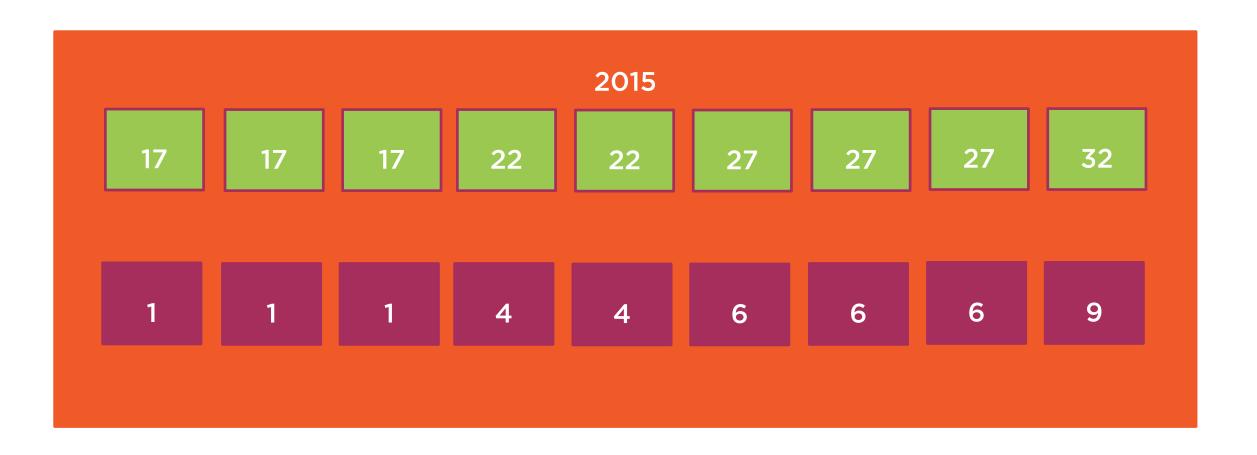
ROW_NUMBER



RANK



RANK



DENSE RANK



Dense Rank

Dense Rank provides an Alternative way to Rank your data

		ROW
		NUMBER
Blue	Dress	1
Red	Dress	2
Yellow	Dress	3
Pink	Dress	4

		RANK
Blue	Dress	1
Red	Dress	1
Yellow	Dress	1
Pink	Dress	4

		DENSE
		RANK
Blue	Dress	1
Red	Dress	1
Yellow	Dress	1
Pink	Dress	2

ROW_NUMBER

Every Row has a
Unique
Sequential
Number

RANK

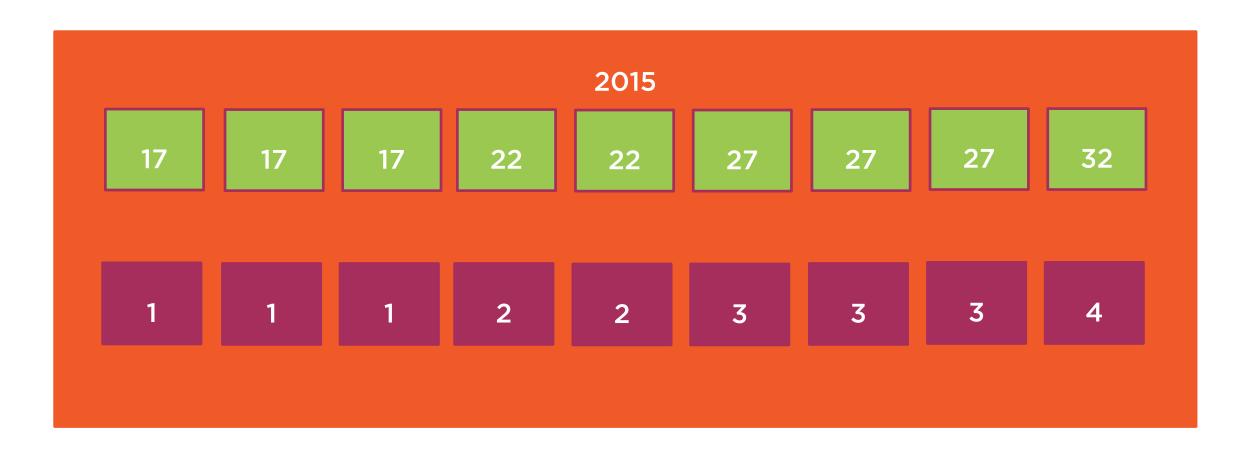
Ties in Ranking
Numbers
Repeat

DENSE_RANK

Ranking numbers
Change
Sequentially



DENSE RANK



NTILE



NTILE (3)

OVER (Partition By

Order By

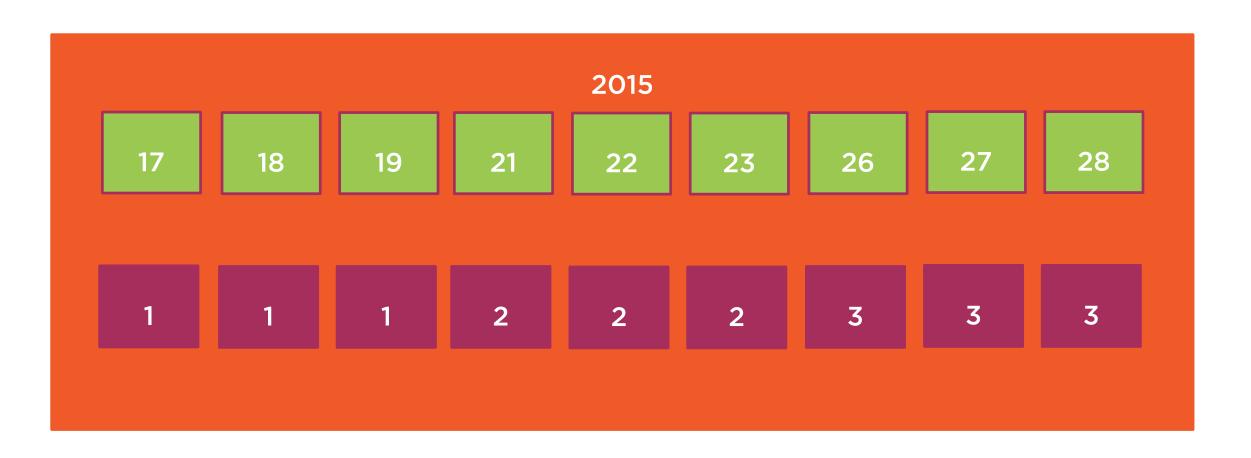
RANKING FUNCTIONS

OVERWhat Dataset does the Function Operate Over

Partition By How the Data is Partitioned

Order By How the Data is Pre Sorted

NTILE



Summary



OVER Clause

- PARTITION BY
- ORDER BY

Write Queries

- ROW_NUMBER
- RANK
- DENSE_RANK
- NTILE

Aggregate Data

- GROUP BY Clause of the Query
- ORDER BY Clause of the Ranking Function

