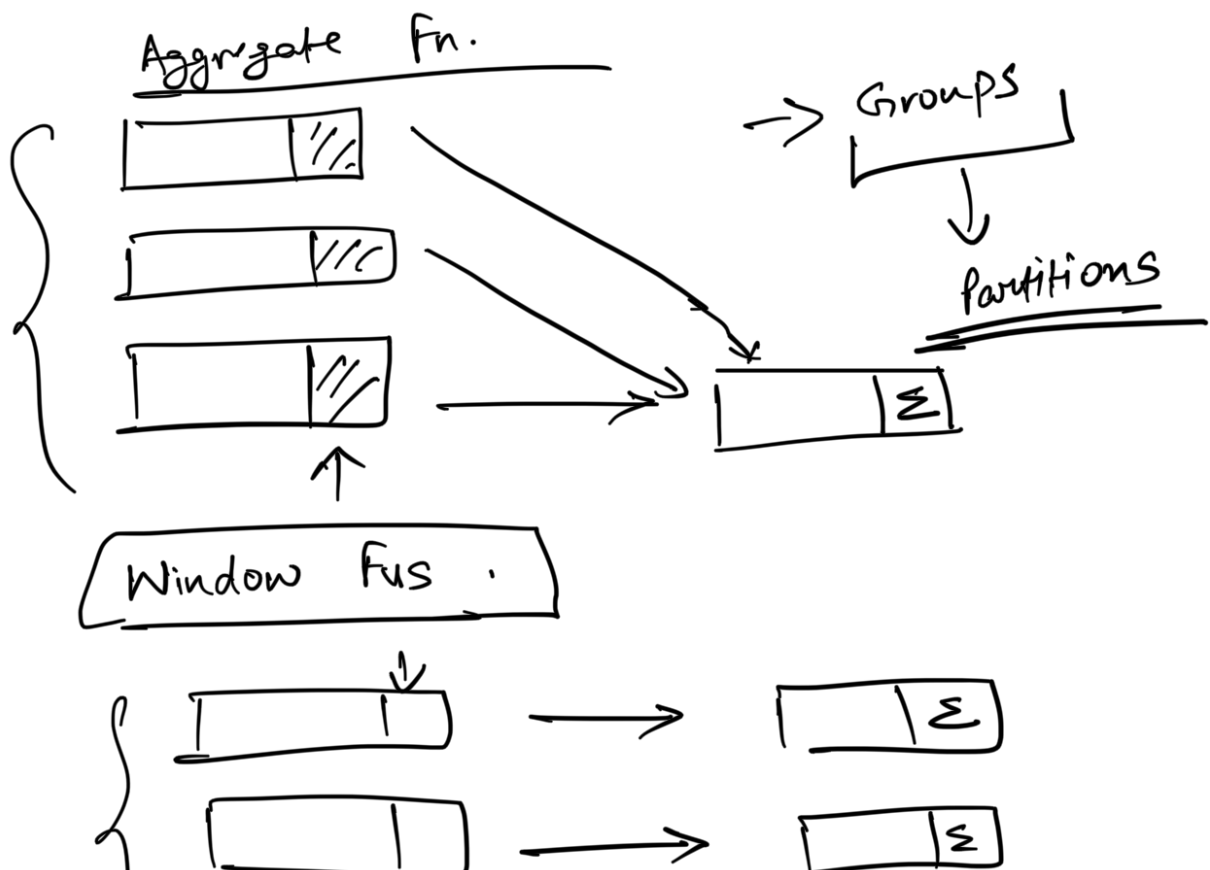


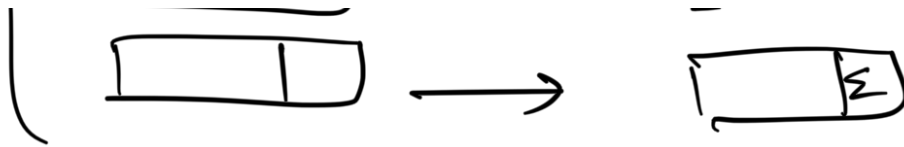
WINDOW FUNCTIONS

Q. Get the price of the most expensive item per vendor.

- Group By vendor-id
- vendor-inv.
- MAX(original-price)

Q. Rank the product in each vendor's inv. . Expensive products should get lower Rank.





| E-ID | Dept. | Salary | Avg. Dept. sal. |
|------|-------|--------|--------------------|
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |

ROW_NUMBER()

Syntax:

→ SELECT
ROW_NUMBER() OVER (PARTITION BY
 vendor-id
 ORDER BY original-price
 DESC)

| ROW_NUMBER() | RANK() | DENSE-RANK() |
|--|--|--------------|
| Keeps on incrementing for same value as well | Adds gap to the values while ranking | |

Q: Display the avg. price ^{of products} per market date correspondingly to each date.

| Ranking fn. | Agg. fn. ✓ | Analytical fns. ✓ |
|--------------|------------|-------------------|
| ROW-NUMBER() | SUM | LEAD() |
| RANK() | AVG | LAG() |
| DENSE-RANK() | | NTH-VALUE() |

Q Extract the farmer's products with prices above the market date's average product cost for vendor_id 8.

Q Count how many different products each vendor brought to the mkt ^{on each date} and display the count on each row.

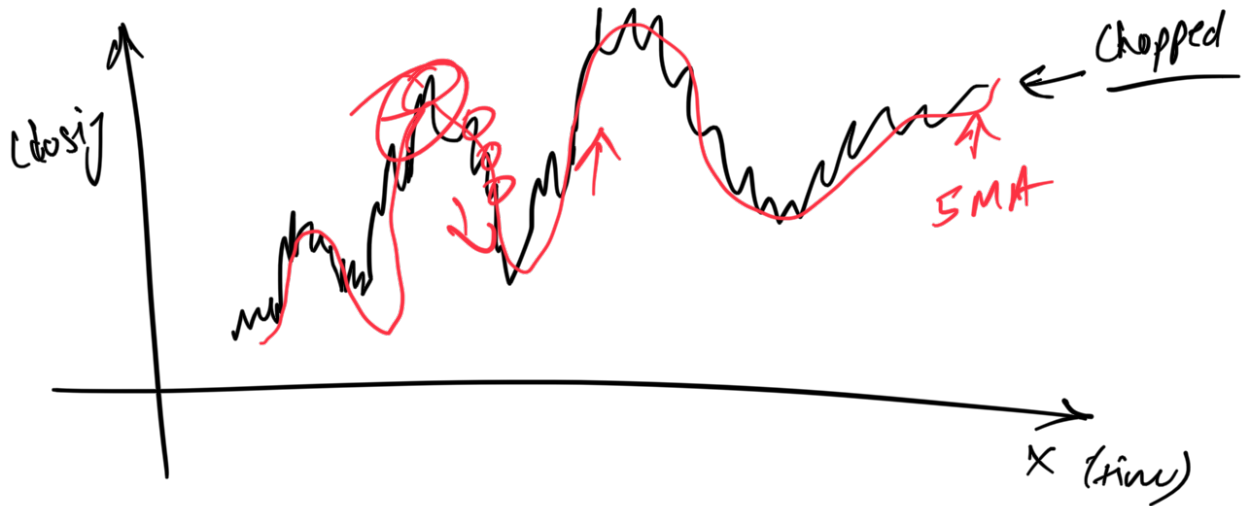
Partition By Market-date, vendor-id

Q.

| | Date | Closing-Price | 5MA |
|---|------|---------------|------|
| → | 12 | 1900 | NULL |
| | 13 | 1905 | NULL |
| | 14 | 1899 | NULL |
| | 15 | 1915 | NULL |
| | 16 | 1920 | 1908 |
| | 20 | 1912 | |
| | 21 | 1909 | |

SQL?

(11111)



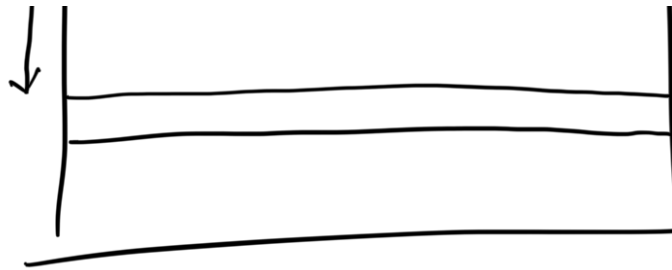
Q.

Sales

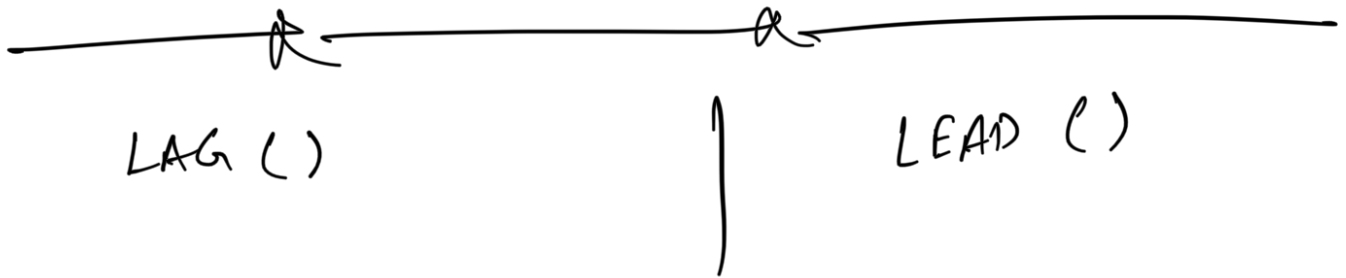
WINDOW FRAMING



(m) following



UNBOUNDED
FOLLOWING



Q. Display each vendor's Booth assignment alongside their prev. booth assignment.

Syntax:

SELECT

LAG (expr, N, default) ← LEAD

↑ 1 (default) 3/4

↑ 28/7

OVER ()

Date - 21

28/7

| V-ID | Booth | Prev-booth |
|------|-------|------------|
| 1 | 5 | NULL |
| - | 6 | 5 |
| | | |

" 2019-04-10 "

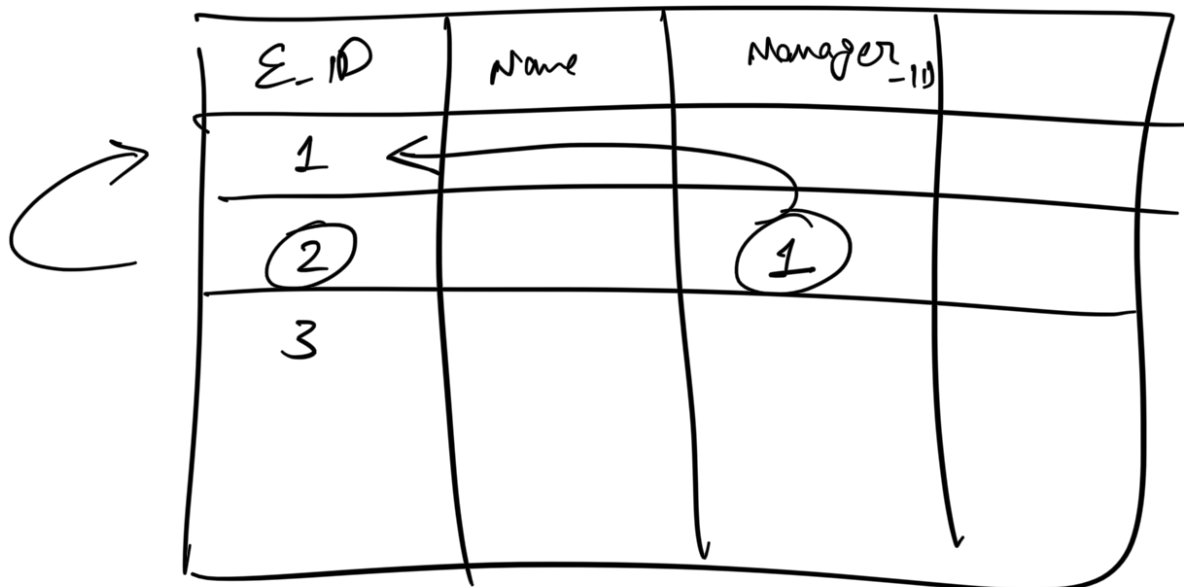
NTH_VALUE () → Sorting Data is imp

NTH_VALUE (expr, N)

OVER (

)

Employee



| E_ID | Name | Manager_ID |
|------|------|------------|
| 1 | | |
| 2 | | 1 |
| 3 | | |