Window fn and Datetime.

Recap:

Agg. window fn

Window frames

Range

Rows

Unbounded. prceding,
         following

Agenda:

- dag, lead,
- Value window fn.
- Date - time.

Value window

emp	Salary
A	10
B	8
C	15.

$\Rightarrow$

emp	Salary	next. salary
B	8	10
A	10	15
C	15	

Lag() and lead () :

lag looks N rows before the current row

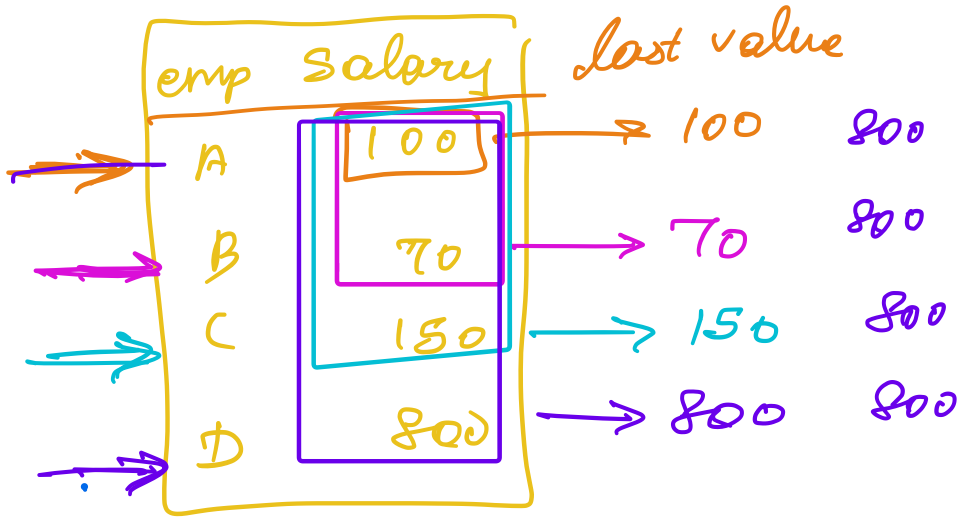lead looks N rows after the current row

lead (salary, 1) over(order by salary asc)

First_value (salary) over(part by dept.id
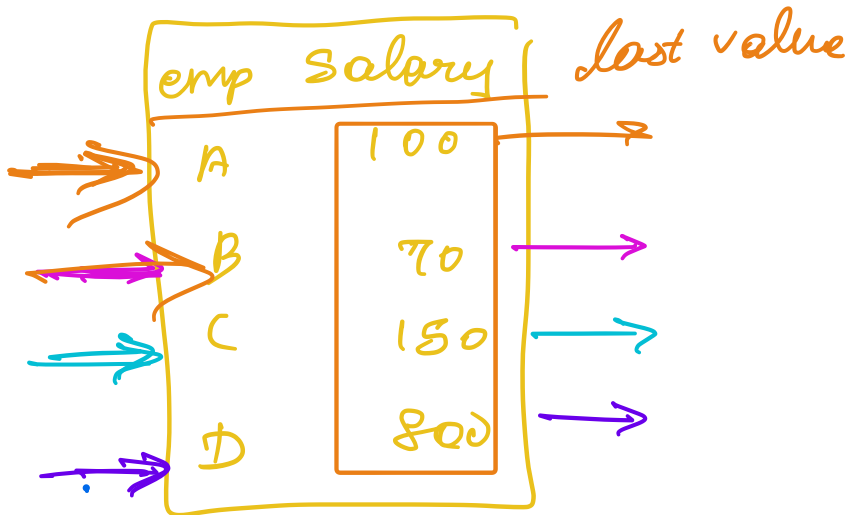   order by hir.date)

sort the employee based on hire date
within each dept & get the first salary
and show in each row of the resp. dept

Dept id		hir date	salary	First value
A	E1	Jan 1	7000	7000
A	E2	Jan 10	10000	7000
A	E2	Feb 12	5000	7000

emp	Salary	First value
A	100	100
B	70	100

C
D
150
800
→ 100
→ 100

emp   Salary   last value
A   100   → 100   800
B   70   → 70   800
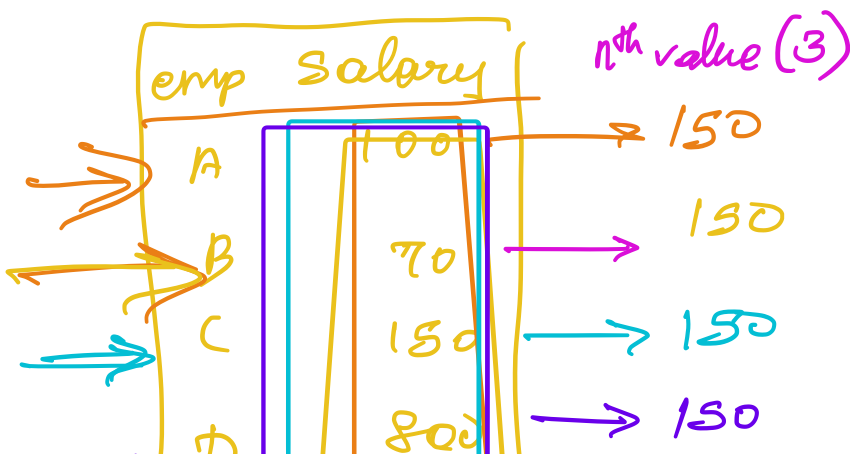C   150   → 150   800
D   800   → 800   800

default → Range btw unb·preced
              & current row.

↓
This has to be changed
          to
unbounded preceding
        and
unbounded following

emp   Salary   last value
A   100   →
B   70   →
C   150   →
D   800   →

emp   Salary   nth value (3)
A   100   → 150
B   70   → 150
C   150   → 150
D   800   → 150

Date time

Some tables will be → YYYY-mm-dd
→ HR: Min: Sec.
→ YYYYY-mm-dd H:Min:Sec

Convert string to date time

2019 - 03 - 0 2   8:00 AM
  ↓   ↓   ↓   ↓   %P"
" %Y - %m - %d   %I : %M