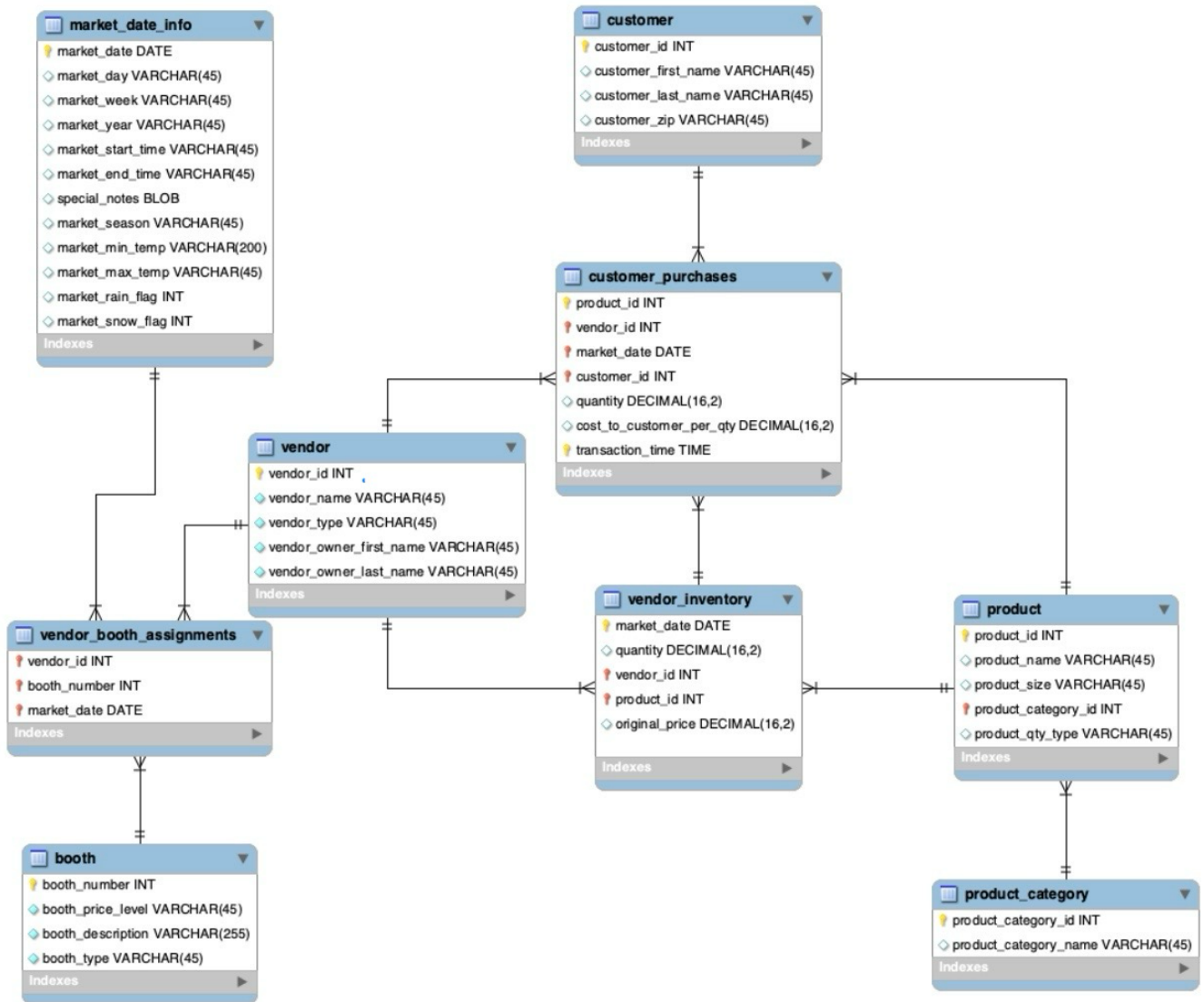
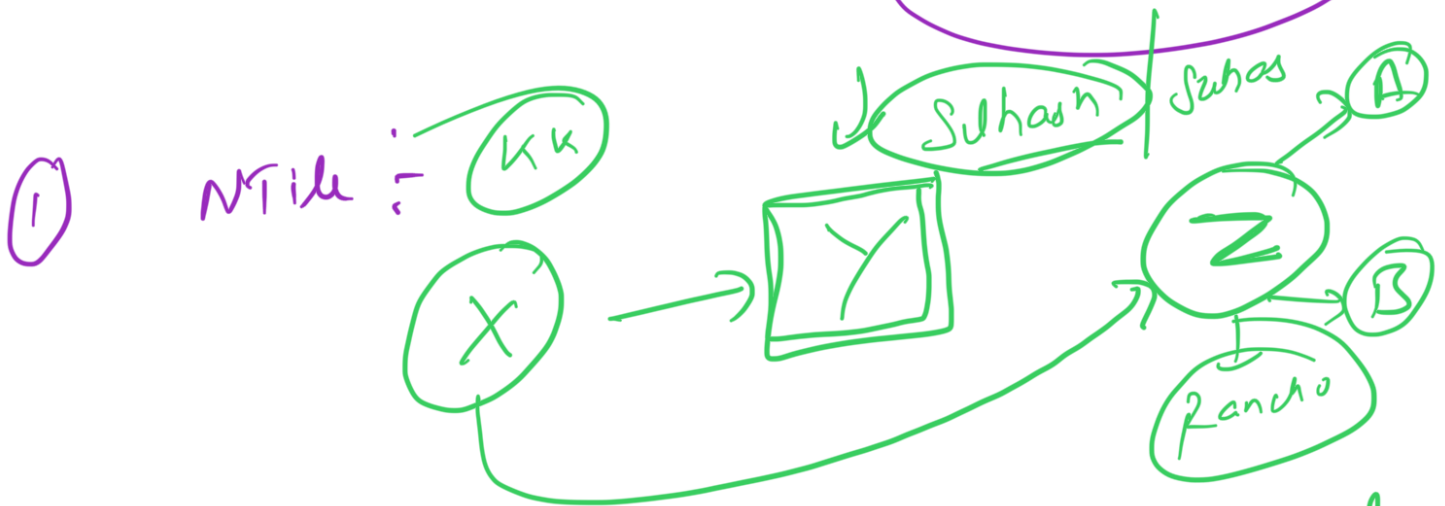
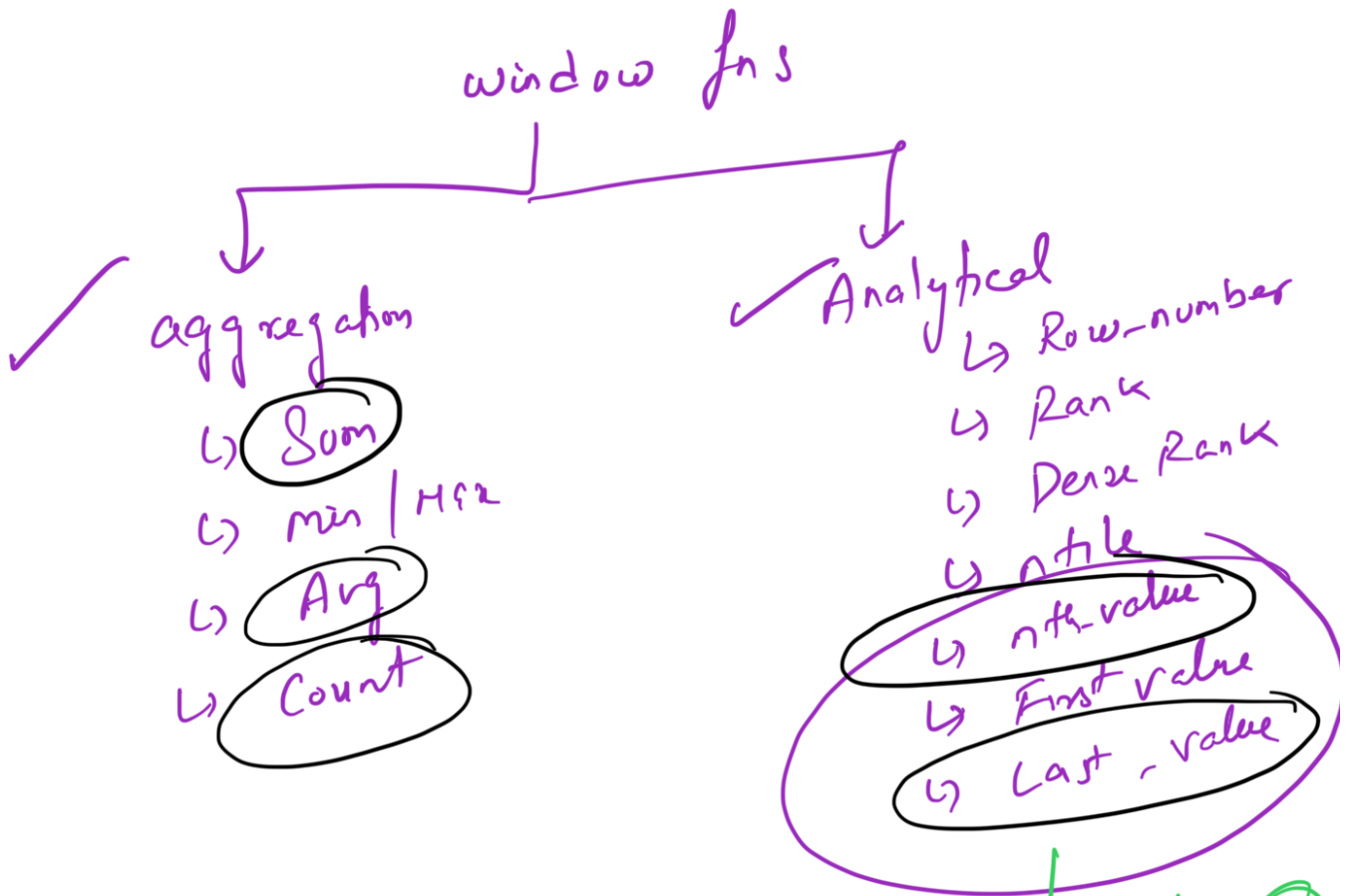


## Agenda

1. Window functions lead/lag/nth value/first value/last value
2. Date time functions
3. Cte and views







⇓ B.tech / B.E → MBA → Financial Crimt

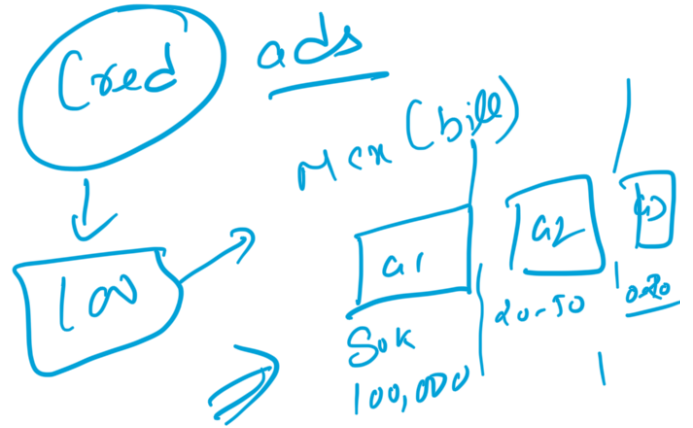
TIM

		%	%tile
Gov	Laxman = 360	60	100
	Nistha = 360	60	100
Gov	Komal = 359	59.9	99.99
		59.8	99.98

600 - Payroll = 358  
 600 - Absence = 350  
 600

59.6	99.8
------	------

IIM A  $\Rightarrow$  2 Sects  
 IPL  $\Rightarrow$  (Cred) ads 2:30 mins



NTile :-  
 Syntax  $\Rightarrow$  NTile (N) over ( )  
 where N = +ve number

↓

		Sal		
1	A	400	800	1
2	B	300	700	1
3	C	150	400	2
4	D	700	300	2
5	E	800	200	3
6	F	200	150	3

employee

(B1)  
 (B2)  
 (B3)

G1 = KL  
 G2 = MC  
 G3 = LL

(6/3)  
 (7/3)  $\Rightarrow$  G1 =

ntile(3) over (order by sal desc) ↑

37 1  
6  
10

1	2	3
1	2	3
1		

② nth-value

Syntax :- nth-value (a, b) over ( )

a = Column value

b = +ve number

UP = null CP = 24000  
UP = 2400 CP = 17000

UP = 17000, 24000 UF = 14000 (13500)  
CP = 17000

UP = 14000, 17000, 17000, 24000  
CP = 13500 <

	24000	13500	24000
	17000	13500	17000
	17000	13500	17000
	14000	13500	14000
	13500	13500	13500

Query :- Last-value (sal) over (orderby  
sal desc

Range between UP and CP  
and UF

→ Last-value()  
between UP and UF

14000

→ Range version

24000	13500
17000	13500
17000	13500
14000	13500
13500	13500

UP = null

UF	17000	17000	13500
CR	24000		

UP = 24000, 17000 CR = 17000  
UF = 14000, 13500

## Date time jms

%Y = Year with Century (2024)  
 %m = Month (01-12) ←  
 %d = Day of the month (01-31)  
 %I = Hour (00-12)  
 %H = Hour (00-23)  
 %M = Minute (00-59) ←  
 %S = Second (00-59)  
 %P = AM/PM

DCS

100 - 1 / 1

nhle (3)

10

$$\begin{array}{r|l} 100 & \\ \hline 200 & -1 \\ \hline 300 & -2 \\ \hline 400 & -2 \\ \hline 500 & -3 \\ 600 & -3 \end{array}$$

note (10)  
 $6 \mid 10 \rightarrow 1$