

Applied SQL-3

Start @ 9:03

Company-id	employee-id	salary	maxSalary	tax %.
1	1	13000	13000	49%
	2	9000	13000	49%
	3	5000	13000	49%
2	1	800	800	0%
	2	500	800	0%

$$\text{Final} = \text{salary} - (\text{tax} * \text{Sal})$$

case .when
 $\text{Max}(s) \text{ over(part by comp)} < 1000$ then 0%
 when
 $\text{max}(s) \text{ over(p. by comp)} \text{ between}$
 $1000 \text{ & } 10000$ then 24%
 else 49%.

account-id	day	type	amt	final
1	Jan1	deposit	10	10
	Jan2	deposit	20	30
	Jan3	withdrawal	-5	25

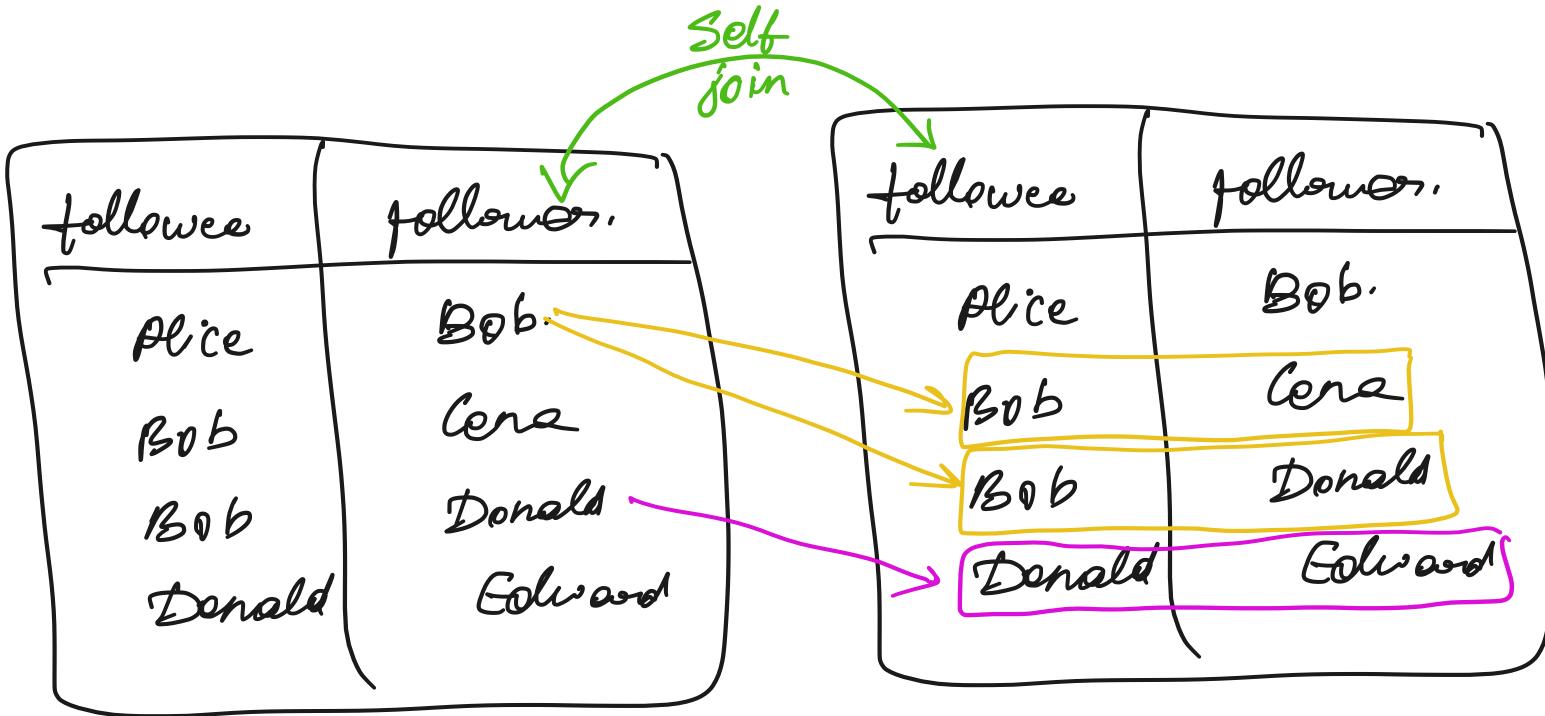
1	Jan 3	won 18	18
2	Jan 4	Deposit	18
2	Jan 5	withdraw.	12.

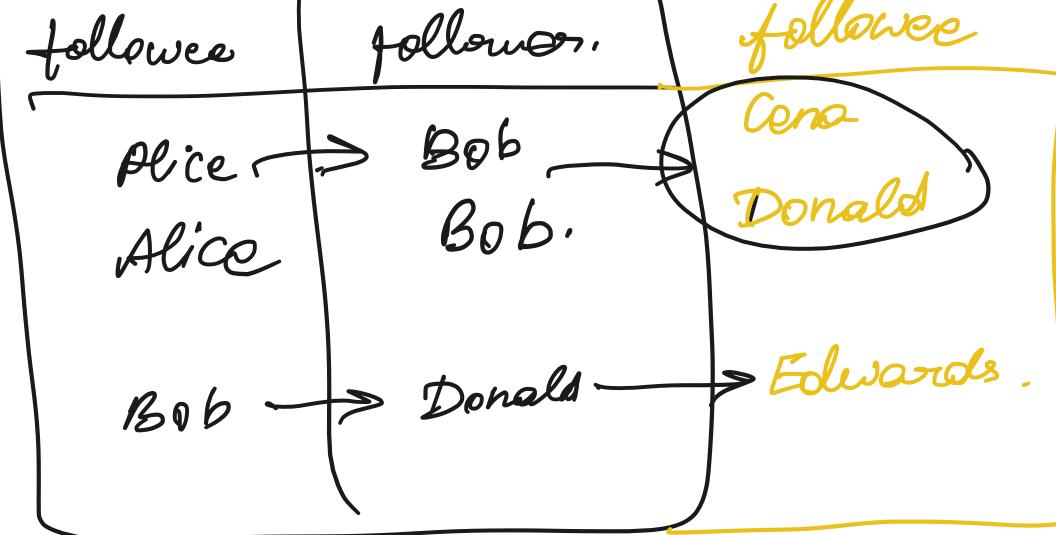
$$18 \rightarrow 18$$

$$-12 \rightarrow 6.$$

when type = deposit then amount
else type = "withdraw" then -amount

	amt	lead amount	sum
X Jan 1	10	Null	
Jan 2	20	10	30
Jan 3	-5	20	15
	18	Null	Null.
-12		18	6.





follower, count(*)

group by follower

Order-id	Per-id	Quantity
1	1	12
	2	10
	3	15
2	1	8
	4	4
2	5	6

Order-id	max(quantity)	Avg(quantity)	max()
1	15	12.33	12.33

2

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Answer: order_id 1. because 15 is greater than the max of the avg.order_qty.

Given date = Dec 10th

→ all hires 6th months before Dec 10th.

emp_id	Start date	Salary
Dept A	Sept 1	100
Dept A	Dec 10	150
Dept B	Jan 12.	200
Dep	July 6.	180
Dept B	Aug 1	400
+ B		

D.Rank. desc

emp_id	Start date	Salary	
Dept A	Sept 1	100	2
Dept A	Dec 10	150	1
Dept B	July 6.	150	2
Dept B	Aug 1	400	1

→

dept A	max(sal)
	180

dept B

400

= ?



Compare
only 1 value

in ?



Can compare
multiple
values.

Recent 2 orders.

Rank date in desc

get all < 2

Cus-id	Cus.name	date	
A	,	Jan 1	4
A	,	Jan 2	3
A	,	Jan 3	2
A	,	Jan 10	1
B	,	Jan 20	2
B	,	Jan 25	1
C	,	Jan 18	3
C	,	Feb 11	2
C	,	Feb 14	1

watch = 8 | 10 - 19 | 'pad - 13 | Mac - 15

Brand	Product	Price	2nd expensive	4th expensive
apple	iphone	10	iphone	Mac

Apple	iPhone			
Apple	iPad	12	iPhone	Mac
Apple	watch	8	iPhone	Mac
Apple	Mac	15.	iPhone	Mac
Sam	watch	35	laptop	NULL
Sam	phone	4	laptop	NULL
Sam	laptop	20	laptop	NULL

nth_value(product, 2) over ()

order by id

id	visit date	people	lag(2)	lag(1)	lead(1)	lead(2)
1	Jan 8	100	Null	Null	400	300
1	Jan 9	400	Null	100	250	800
1	Jan 10	300	100	400	800	NULL
1	Jan 11	250	400	300	NULL	NULL
1	Jan 12	800	300	250		

(people > 100 & lag(1) > 100 & lag(2) > 100)

or

(people > 100 & lag(1) > 100 & lead(1) > 100)

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 $(people \geq 100 \quad \& \quad lead(1) \geq 100 \quad \& \quad lead(2) \geq 100)$