SQL Date time continued and CTE.
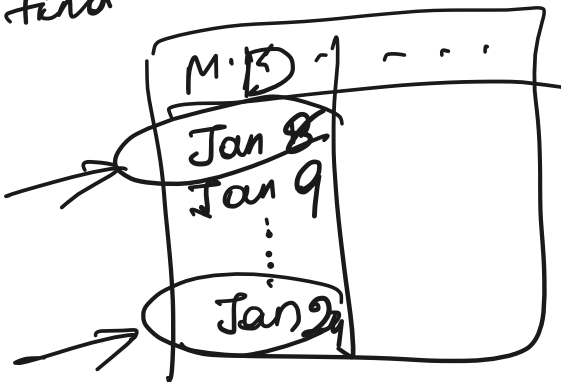
Recap :

- First value
- Last value
- Nth value

- Date operation
- Parse_datetime
- Extract
- format
- Date_add, sub.

Agenda:

- Date functions
- CTE.
- One FB interview ques.

Find the no. of days betw first & last date.

Date_diff (date 1 , date 2 , Day)
                ↓   ↓
                              return the o/p in days.

---

current_date () ⇒ gives the today's date

Days since each purchase.

		log.	
A	Jan 1		NULL
A	Jan 7 ↔ Jan 1	⟹ 6
A	Jan 15 ↔ Jan 15	⟹ 9
B	Feb 20		NULL
B	Feb 24 ↔ Feb 20	⟹ 4
B	Feb 27 ↔ Feb 27	⟹ 3

Sales that happened within 30 days before May 31.

M.K.

	2019-05-31	
Feb 15		⟹ 175 days.
April 25		⟹ 35 days
May 10		⟹ 20 days.
May 24		⟹ 6 days
May 29		⟹ 10 days
June 10		

⟹ where datediff ("2019-05-31, market date, day) < 31

Apr 29 ← (2019-05-31) - 31   can also be done with

May 1

May 10

May 29

June 1

2019-05-31

Where market-date
between
date_sub(market-date,
interval 30 days)
and "2019-05-31"

Quiz question:

1 on 1
2
3
4
5.

NULL
NULL
NULL
NULL
NULL.
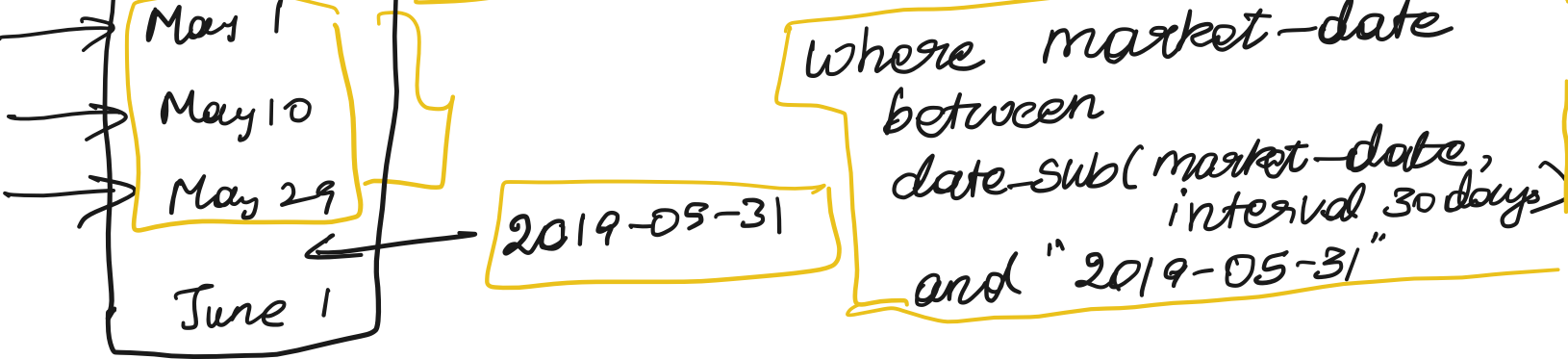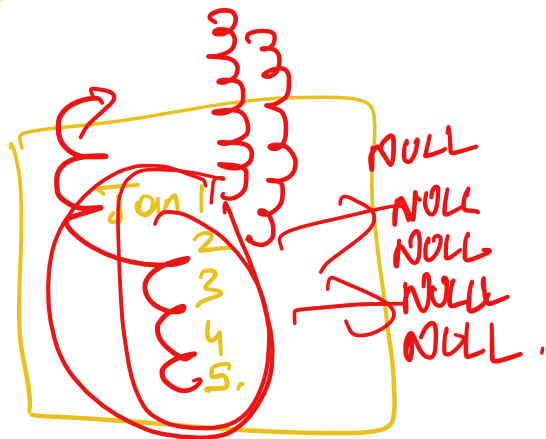
lead (Date, 7) over ( )
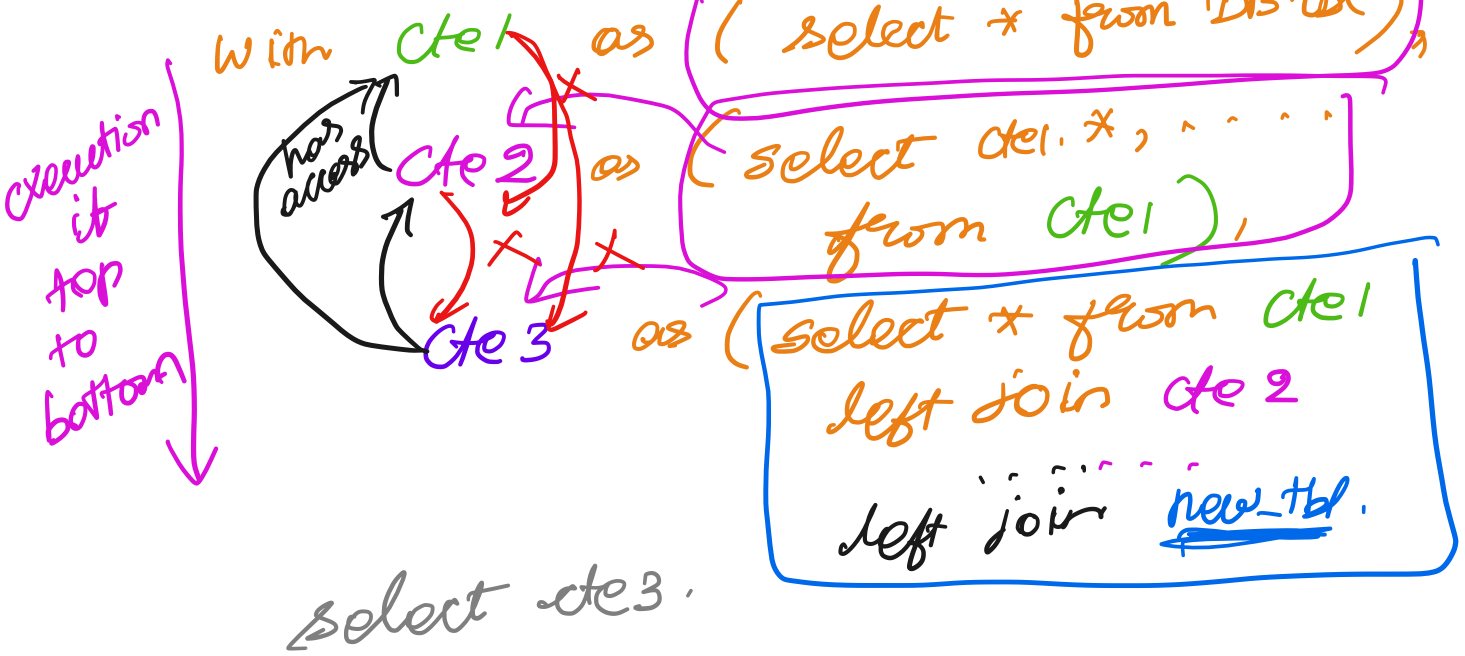
CTE — common table expression.

• Modularize your query.

Syntax:

With CTE_tble_1 as (Query 1),

cte-tbl-2 as (Query 2),

cte-table-3 as (query 3)

select * from cte-table-3

With cte1 as (select * from 'list'),

has access

cte2 as (select cte1.*, ...
            from cte1),

cte3 as (select * from cte1
            left join cte2

            left join new_tbl.

execution it top to bottom

select cte3.

7B interview question.

Post table

usr.id	date	Post.id	num-comment
User1	Jan 1	P242	10
User2			
User1	Feb 20	P823	30
User3			

user table

Row no	user.id	Country
	user1	India
	Use 2	USA
	User3	UK.

Which countries has raised in the Ranking based on 22
the number of comments between Dec 2021 vs Jan 20

Dec, 2021   Jan, 2022
                 UK   50, 1
1 → India 70.   ↗
2 → UK.   20 ↗ India 96 ↓2.

	Dec	Jan
UK	2	1.
U.SA.	4	2

emp	Dept	Sales
e1	A	10
e2	A	20
e3	A	40
e4	B	15
e5	B.	10.

5 rows.

Select dept, sum(sales)
groupby (dept)

Dept		emp
A	70	e1
		e2
B.	25.	e3
		e4
		e5.

Select dept, emp, Sum(sales)
groupby (dept)

Select

emp, dept
from...
group emp, dept