## SQL TIPS AND TRICKS

**PART 12** 

**Interview Question** 

MAYURI DANDEKAR

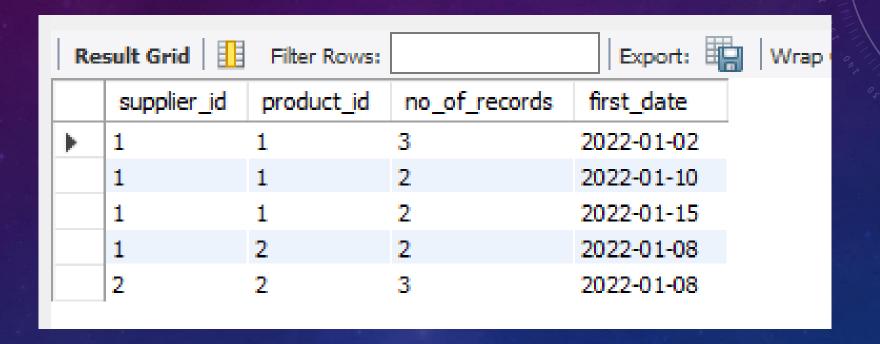
## Sample Example

Result Grid				
	supplier_id	product_id	stock_quantity	record_date
<b>&gt;</b>	1	1	60	2022-01-01
	1	1	40	2022-01-02
	1	1	35	2022-01-03
	1	1	45	2022-01-04
	1	1	51	2022-01-06
	1	1	55	2022-01-09
	1	1	25	2022-01-10
	1	1	48	2022-01-11
	1	1	45	2022-01-15
	1	1	38	2022-01-16
	1	2	45	2022-01-08
	1	2	40	2022-01-09
	2	1	45	2022-01-06
	2	1	55	2022-01-07
	2	2	45	202 2022-01-08
	2	2	48	2022-01-09
	2	2	35	2022-01-10
	2	2	52	2022-01-15
	2	2	23	2022-01-16

Write a SQL query to find out supplier\_id, product\_id, and starting date of record\_date for which stock quantity is less than 50 for two or more consecutive days.

```
⊖ WITH cte1 AS (
61
           SELECT
62
               supplier_id, product_id, record_date,
               LAG(record_date, 1) OVER (PARTITION BY supplier_id, product_id ORDER BY record_date) AS prev_recrddate,
63
              DATEDIFF(record_date, LAG(record_date, 1, record_date)
64
65
                       OVER (PARTITION BY supplier id, product id ORDER BY record date)) AS daysdiff
66
           FROM stock
67
           WHERE stock quantity < 50
68
      cte2 AS (
70
           SELECT *,
71
               CASE WHEN daysdiff <= 1 THEN 0 ELSE 1
72
               END AS group flag,
73
               SUM(CASE WHEN daysdiff <= 1 THEN 0 ELSE 1 END) OVER (PARTITION BY supplier id, product id ORDER BY record date) AS group id
74
           FROM cte1
75
76
       SELECT
77
           supplier id, product id, COUNT(*) AS no of records, MIN(record date) AS first date
78
       FROM cte2
79
       GROUP BY supplier_id, product_id, group_id
       HAVING count(*) >= 2;
80
```

## OUTPUT



## THANK YOU

MAYURI DANDEKAR