

The background features a dark blue gradient with faint, light blue concentric circles and degree markings (40, 150, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260) on the left side, suggesting a circular or rotational theme.

SQL TIPS AND TRICKS

PART 12

Interview Question

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Sample Example

Result Grid					Filter Rows:		Export:	W
	supplier_id	product_id	stock_quantity	record_date				
▶	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	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.

```
60 WITH cte1 AS (  
61     SELECT  
62         supplier_id, product_id, record_date,  
63         LAG(record_date, 1) OVER (PARTITION BY supplier_id, product_id ORDER BY record_date) AS prev_recrddate,  
64         DATEDIFF(record_date, LAG(record_date, 1, record_date)  
65             OVER (PARTITION BY supplier_id, product_id ORDER BY record_date)) AS daysdiff  
66     FROM stock  
67     WHERE stock_quantity < 50  
68 ),  
69 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  
80 HAVING count(*) >= 2;
```

OUTPUT

Result Grid				
Filter Rows: <input type="text"/>				
Export:  Wrap				
	supplier_id	product_id	no_of_records	first_date
▶	1	1	3	2022-01-02
	1	1	2	2022-01-10
	1	1	2	2022-01-15
	1	2	2	2022-01-08
	2	2	3	2022-01-08



THANK YOU

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