

Day30 - March6th 2024

1. Started my day as usual
2. Headed to library for some peace and concentration
3. Solved leetcode problems on binary search and hashmap
4. Marketed my profile for data engineering
5. Helped my friends to understand SQL and solved some basic problems

6. Ended my day by solving tricky SQL question from Ankit's YT

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL code:

```

--Q : Write a SQL query to find four consecutive empty seats in the theatre
select * from movie;

with cte as(
select seat, left(seat,1) as seat1, cast(SUBSTRING(seat,2,3) as int) as num, occupancy from movie),
cte2 as(
select *, max(occupancy) over(partition by seat1 order by num rows between current row and 3 following)
as is_4_empty,
count(occupancy) over(partition by seat1 order by num rows between current row and 3 following)
as cnt from cte ),
cte3 as(
select * from cte2
where is_4_empty = 0 and cnt = 4)
select cte2.* from cte2
inner join cte3 on cte2.seat1 = cte3.seat1 and cte2.num between cte3.num and cte3.num+3
    
```

The Results pane shows the output of the query:

seat	occupancy
a1	1
a2	1
a3	0
a4	0
a5	0
a6	0
a7	1
a8	1
a9	0
a10	0
b1	0
b2	0
b3	0
b4	1
b5	1
b6	1
b7	1
b8	0
b9	0
b10	0

The status bar indicates the query was executed successfully.

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count(occupancy) over(partition by seat1 order by num rows between current row and 3 following)
as cnt from cte ),
cte3 as(
select * from cte2
where is_4_empty = 0 and cnt = 4)
select cte2.seat, cte2.occupancy from cte2
inner join cte3 on cte2.seat1 = cte3.seat1 and cte2.num between cte3.num and cte3.num+3
    
```

The Results pane shows the output of the query:

seat	occupancy
a3	0
a4	0
a5	0
a6	0

The status bar indicates the query was executed successfully.

7.