

Day67 - April 12th 2024

1. Started my day as usual
2. Solved a problem on Linkedlist **138. Copy List with Random Pointer**
Pls find my sol doc here : [4-12-24_Copy List With Random Pointer](#)
3. Completed ingestion of all the tables from Onperm DB to Azure
Please find my project doc here :
[4-12,13-24_End to End Azure DE\(On Perm to Azure\)](#)

4. Ended my day by solving a SQL question from youtube

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

```
create table weather1
(
    city varchar(50),
    temperature int,
);

insert into weather1 values
('London', -1),
('London', -2),
('London', 4),
('London', 1),
('London', -2),
('London', -5),
('London', -7),
('London', 5);

--Q : Retrieve N consecutive rows in the table that does not have Primary Key
select * from weather1;
```

The Results pane shows the output of the query, displaying 8 rows of data:

city	temperature
London	-1
London	-2
London	4
London	1
London	-2
London	-5
London	-7
London	5

The status bar at the bottom indicates "Query executed successfully." and "8 rows".

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

```
select * from weather1;

with id as(
    select *,ROW_NUMBER() over(order by(select null)) as id from weather1)
,cte as(
    select *,row_number() over(order by id) as rn,(id-row_number() over(order by id)) as flag from id
    where temperature < 0)
,cte2 as(
    select *,count(*) over(partition by flag) as run_count from cte)
select id,city from cte2
where run_count = 3

/*Explanation :
Step1 : To Generate the id(Primary Key) we used row_number() over(order by select null)
        which generates row_number for every row in the table
Step2 : Now with the help of this id we can find N Consecutive rows similarly to last
        problem we have solved.
```

The Results pane shows the output of the query, displaying 3 rows of data:

id	city
5	London
6	London
7	London

The status bar at the bottom indicates "Query executed successfully." and "3 rows".