

Day72 - April 17th 2024

1. Started my day as usual
2. Learning how to load data from Azure ADF to Azure Synapse analytics

Find learning docs here :

<https://docs.google.com/document/d/10OZtOqIzoFJA3aZIY19Pa5HIZfk5EdJuMVd2FhsTnKo/edit?usp=sharing>

3. Solved leetcode **25. Reverse Nodes in k-Group**

Please find my solution and explanation here :

<https://docs.google.com/document/d/1a20qsDopDca5gZde20f-49kXBKgBbzEZZTOeZCrUj6k/edit?usp=sharing>

4. Ended my day by solving complex SQL problem from youtube

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains an INSERT statement into the 'emp_salary' table. The results pane shows 7 rows of data.

```
--:);  
  
--:INSERT INTO emp_salary  
(emp_id, name, salary, dept_id)  
VALUES(101, 'sohan', '3000', '11'),  
(102, 'rohan', '4000', '12'),  
(103, 'mohan', '5000', '13'),  
(104, 'cat', '3000', '11'),  
(105, 'suresh', '4000', '12'),  
(109, 'mahesh', '7000', '12'),  
(108, 'kamal', '8000', '11');
```

--Q: Write a Query to get employees whose salary is same in same department.
Select * from emp_salary;

emp_id	name	salary	dept_id	
1	101	sohan	3000	11
2	102	rohan	4000	12
3	103	mohan	5000	13
4	104	cat	3000	11
5	105	suresh	4000	12
6	109	mahesh	7000	12
7	108	kamal	8000	11

Query executed successfully.

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains a CTE query. The results pane shows 4 rows of data.

```
--with cte as(  
select salary,dept_id from emp_salary  
group by salary,dept_id  
having count(emp_id) > 1)  
select e.* from cte c1  
inner join emp_salary e on e.salary = c1.salary and e.dept_id = c1.dept_id  
order by e.emp_id
```

/* Explanation:
Step1 : First used group by on salary and dept_id to get count of the emp
who has same salary and dept_id...framed this in a CTE
Step2 : Later joined our emp_salary with CTE...where salary and dept_id matches
This gives us the required Output

emp_id	name	salary	dept_id	
1	101	sohan	3000	11
2	102	rohan	4000	12
3	104	cat	3000	11
4	105	suresh	4000	12

Query executed successfully.