

Day59 - April 4th 2024

1. Started my day as usual

2. Solved wiggle sort on leetcode **324. Wiggle Sort I**

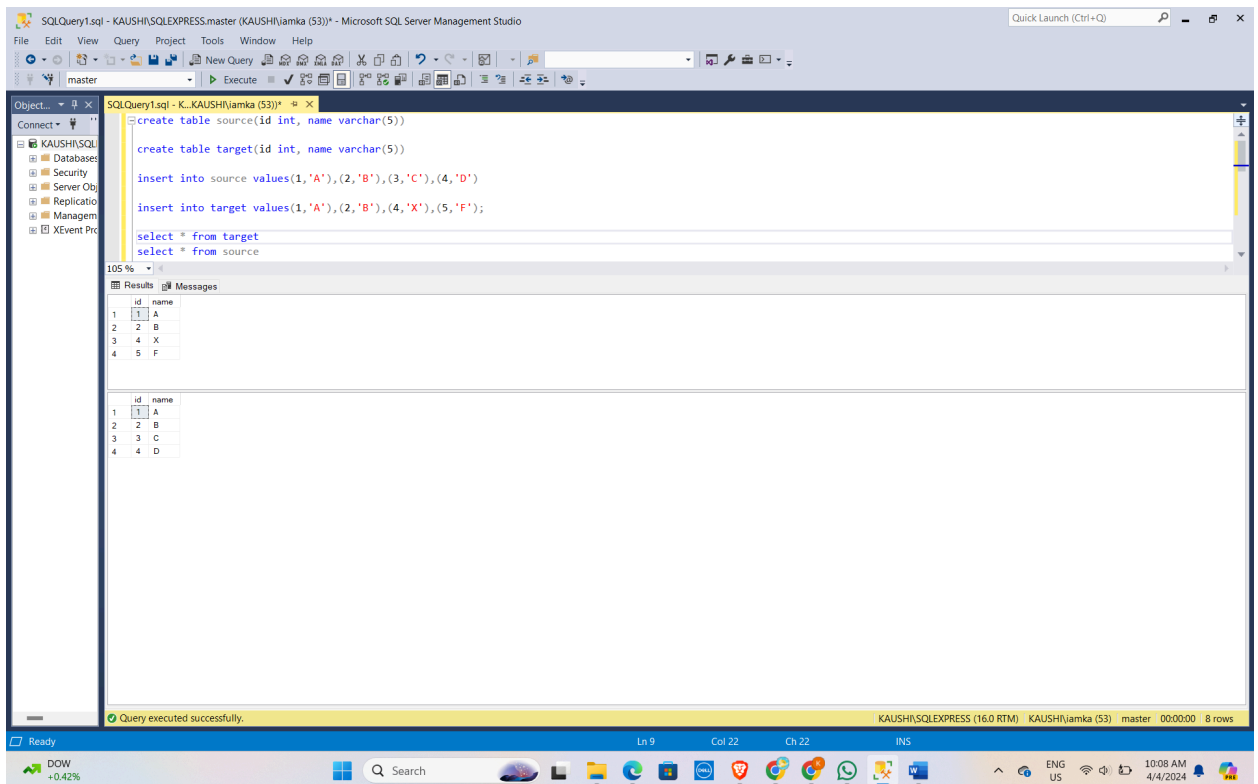
Approach and solution :

https://docs.google.com/document/d/1tzJmy82V5ECURhF3w2OpvQi4KA4RSeTLIPv_vonOtY/edit?usp=sharing

3. Started building a new beginner project on AWS data engineering

Architecture :  4,5-4-24_ETL PipeLine

4. Ended my day by solving complex SQL question



SQLQuery1.sql - KAUSHI\SQLEXPRESS:master (KAUSHI\jamka (53)) - Microsoft SQL Server Management Studio

```
create table source(id int, name varchar(5))

create table target(id int, name varchar(5))

insert into source values(1,'A'),(2,'B'),(3,'C'),(4,'D')

insert into target values(1,'A'),(2,'B'),(4,'X'),(5,'F');

select * from target
select * from source
```

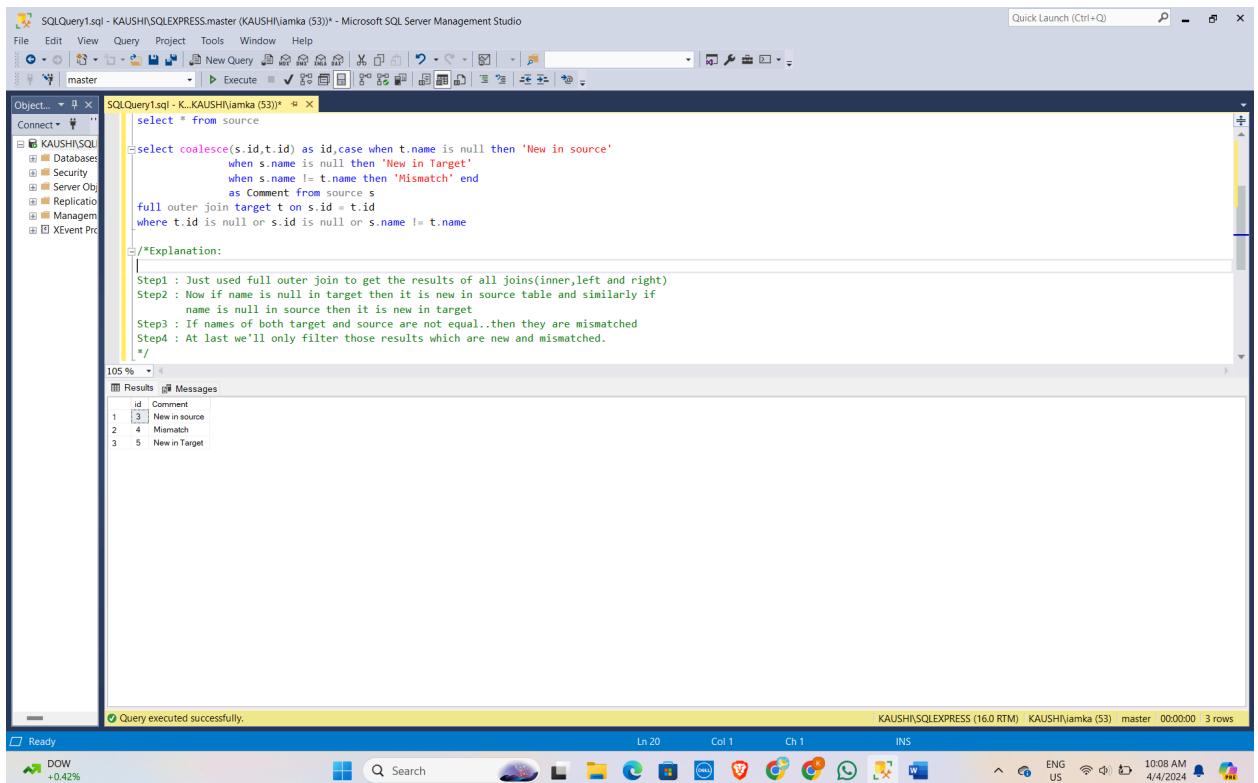
105 %

id	name
1	A
2	B
3	X
4	F

id	name
1	A
2	B
3	C
4	D

Query executed successfully.

KAUSHI\SQLEXPRESS (16.0 RTM) KAUSHI\jamka (53) master 00:00:00 8 rows



SQLQuery1.sql - KAUSHI\SQLEXPRESS:master (KAUSHI\jamka (53)) - Microsoft SQL Server Management Studio

```
select * from source

select coalesce(s.id,t.id) as id,case when t.name is null then 'New in source'
      when s.name is null then 'New in Target'
      when s.name != t.name then 'Mismatch' end
      as Comment from source s
full outer join target t on s.id = t.id
where t.id is null or s.id is null or s.name != t.name

/*Explanation:
Step1 : Just used full outer join to get the results of all joins(inner,left and right)
Step2 : Now if name is null in target then it is new in source table and similarly if
name is null in source then it is new in target
Step3 : If names of both target and source are not equal..then they are mismatched
Step4 : At last we'll only filter those results which are new and mismatched.
*/
```

105 %

id	Comment
3	New in source
4	Mismatch
5	New in Target

Query executed successfully.

KAUSHI\SQLEXPRESS (16.0 RTM) KAUSHI\jamka (53) master 00:00:00 3 rows

5.