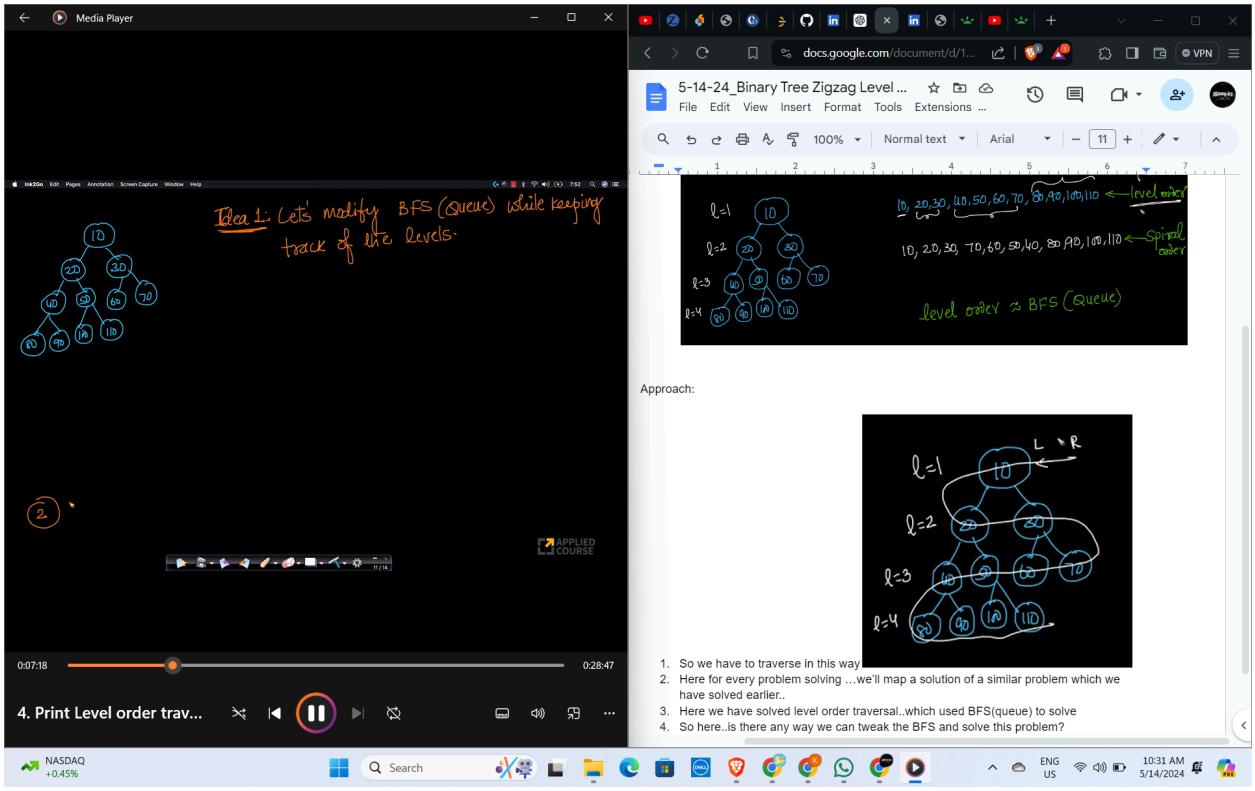
Day99 - May 14th 2024

1. Started my day as usual
2. Solved 103. Binary Tree Zigzag Level Order Traversal

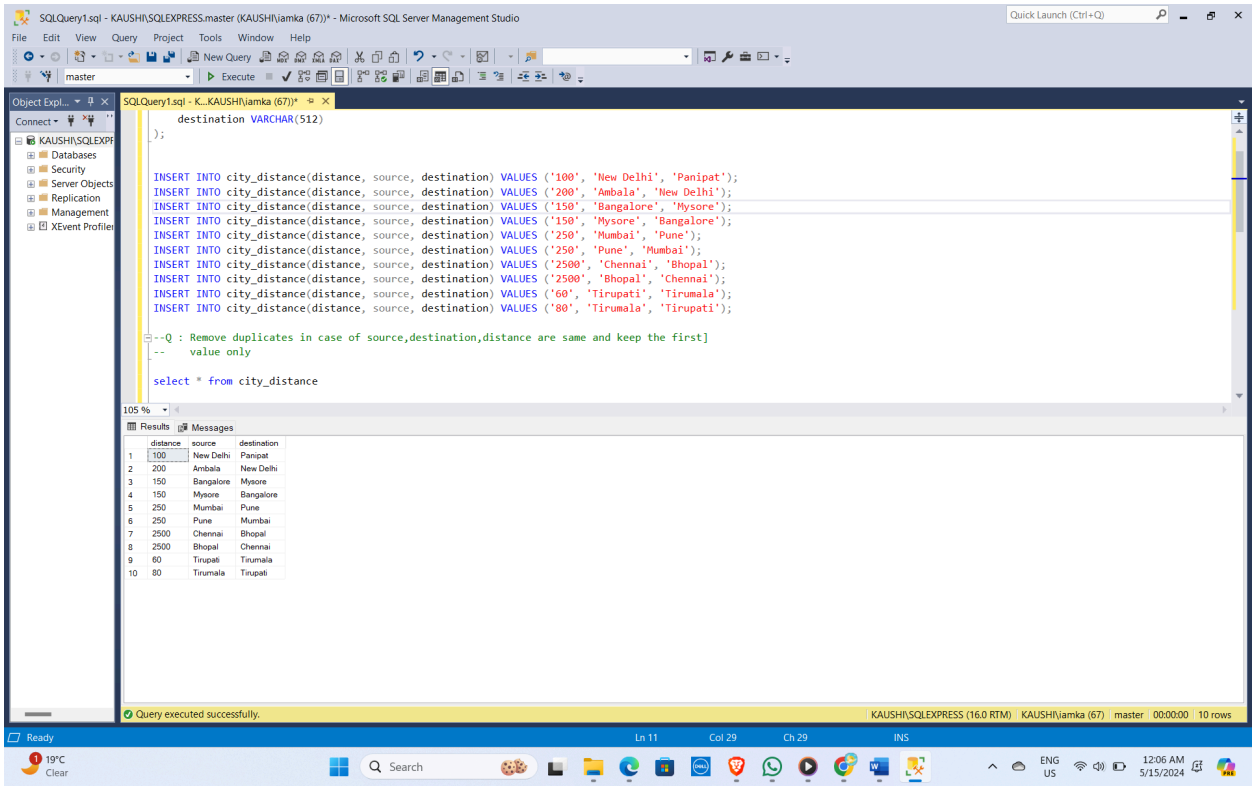
   A medium problem on binary trees using two stacks

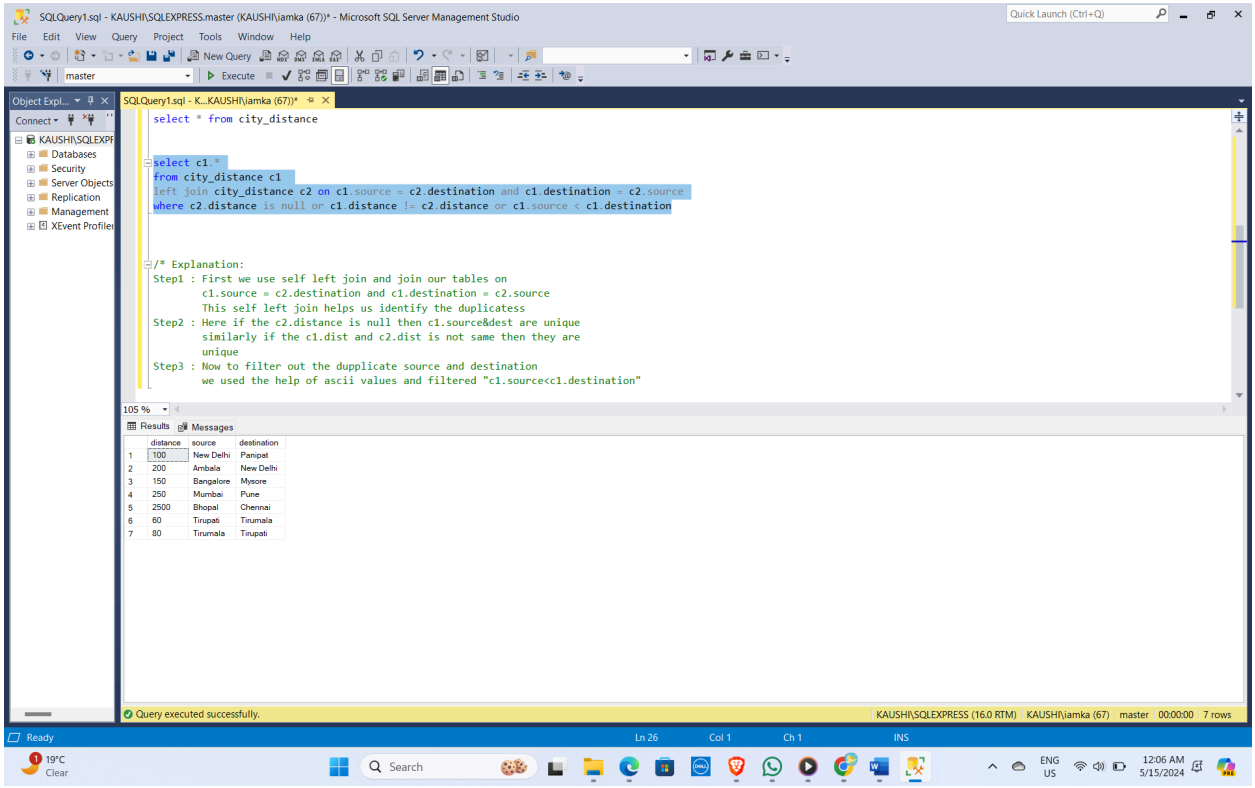
   Pls find my sol doc here :

   https://docs.google.com/document/d/1Mr8yn0CWvhxCkpfQRV2tD94UjIqaVyklKqCuZRGv7rw/edit?usp=sharing



3. Ended my day by solving complex SQL question from leetcode


SQLQuery1.sql - KAUSHI\SQLEXPRESS.master (KAUSHI\iamka (67))* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
Execute
master
Object Expl...
Connect
KAUSHI\SQLEXPF
Databases
Security
Server Objects
Replication
Management
XEvent Profiler
SQLQuery1.sql - K...KAUSHI\iamka (67))*
destination VARCHAR(512)
);
INSERT INTO city_distance(distance, source, destination) VALUES ('100', 'New Delhi', 'Panipat');
INSERT INTO city_distance(distance, source, destination) VALUES ('200', 'Ambala', 'New Delhi');
INSERT INTO city_distance(distance, source, destination) VALUES ('150', 'Bangalore', 'Mysore');
INSERT INTO city_distance(distance, source, destination) VALUES ('150', 'Mysore', 'Bangalore');
INSERT INTO city_distance(distance, source, destination) VALUES ('250', 'Mumbai', 'Pune');
INSERT INTO city_distance(distance, source, destination) VALUES ('250', 'Pune', 'Mumbai');
INSERT INTO city_distance(distance, source, destination) VALUES ('2500', 'Chennai', 'Bhopal');
INSERT INTO city_distance(distance, source, destination) VALUES ('2500', 'Bhopal', 'Chennai');
INSERT INTO city_distance(distance, source, destination) VALUES ('60', 'Tirupati', 'Tirumala');
INSERT INTO city_distance(distance, source, destination) VALUES ('80', 'Tirumala', 'Tirupati');
--Q : Remove duplicates in case of source,destination,distance are same and keep the first]
-- value only
select * from city_distance
105 %
Results
Messages
distance source destination
1 100 New Delhi Panipat
2 200 Ambala New Delhi
3 150 Bangalore Mysore
4 150 Mysore Bangalore
5 250 Mumbai Pune
6 250 Pune Mumbai
7 2500 Chennai Bhopal
8 2500 Bhopal Chennai
9 60 Tirupati Tirumala
10 80 Tirumala Tirupati
Query executed successfully.
KAUSHI\SQLEXPRESS (16.0 RTM) KAUSHI\iamka (67) master 00:00:00 10 rows
Ready
Ln 11 Col 29 Ch 29 INS
19°C Clear
Search
ENG US
12:06 AM 5/15/2024


SQLQuery1.sql - KAUSHI\SQLEXPRESS.master (KAUSHI\iamka (67))* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
Execute
master
Object Expl...
Connect
KAUSHI\SQLEXPF
Databases
Security
Server Objects
Replication
Management
XEvent Profiler
SQLQuery1.sql - K...KAUSHI\iamka (67))*
select * from city_distance
select c1.*
from city_distance c1
left join city_distance c2 on c1.source = c2.destination and c1.destination = c2.source
where c2.distance is null or c1.distance != c2.distance or c1.source < c1.destination
/* Explanation:
Step1 : First we use self left join and join our tables on
c1.source = c2.destination and c1.destination = c2.source
This self left join helps us identify the duplicatess
Step2 : Here if the c2.distance is null then c1.source&dest are unique
similarly if the c1.dist and c2.dist is not same then they are
unique
Step3 : Now to filter out the dupplicate source and destination
we used the help of ascii values and filtered "c1.source<c1.destination"
105 %
Results
Messages
distance source destination
1 100 New Delhi Panipat
2 200 Ambala New Delhi
3 150 Bangalore Mysore
4 250 Mumbai Pune
5 2500 Bhopal Chennai
6 60 Tirupati Tirumala
7 80 Tirumala Tirupati
Query executed successfully.
KAUSHI\SQLEXPRESS (16.0 RTM) KAUSHI\iamka (67) master 00:00:00 7 rows
Ready
Ln 26 Col 1 Ch 1 INS
19°C Clear
Search
ENG US
12:06 AM 5/15/2024