Multi table JOIN

If we have a master table and querying on it to get the answers but some answers lie on different table we use multiple LEFT JOINS with the condition of Keys. If we want to see only the matching and non-matching data then WHERE clause comes into picture.

Pathway –

Master table A -> Table B (Matching) -> Table C (Matching)

At the end, we will get a complete big picture in a single dataset.

If all the tables are important then use INNER JOIN. This will only get the results where all the data is overlapping.

Example –

Steps to follow –

Analyse the data by knowing the common keys and requirements.

SELECT \* FROM goldusers\_signup;

SELECT \* FROM product;

SELECT \* FROM sales;

SELECT \* FROM users;

Join any two tables according to the requirement

SELECT S.userid, S.created\_date

FROM sales AS S

LEFT JOIN users AS U

ON S.userid=U.userid

Satisfy the 2nd requirement using the same LEFT JOIN

SELECT S.userid, S.created\_date, S.product\_id

FROM sales AS S

LEFT JOIN users AS U

ON S.userid=U.userid

LEFT JOIN product as P

ON S.product\_id=P.product\_id

And now the 3rd requirement

SELECT S.userid, S.created\_date, S.product\_id, G.gold\_signup\_date

FROM sales AS S

LEFT JOIN users AS U

ON S.userid=U.userid

LEFT JOIN product as P

ON S.product\_id=P.product\_id

LEFT JOIN goldusers\_signup AS G

ON S.userid=G.userid

This becomes the final SQL code on joining multiple tables to get the correct data.