Problem: Combine Two Tables

Link: https://leetcode.com/problems/combine-two-tables/submissions/1657797168

Level: Easy

My approach: Joining tables on personid, as this was what both tables had in common.

What I learned: Doing a normal join would not work, it is important to do a left join so that every person (even those who did not provide their addresses) would be present in the output.

Problem: Rank Scores

Link: https://leetcode.com/problems/rank-scores/submissions/1657973927

Level: Medium

My approach: Use the Dense Rank Window function as I don't want any ranks who are tied to lead to the next rank being skipped.

What I learned: When I want the title "rank", I need to put it in quotation marks otherwise the function won't work.

Problem: Customers Who Never Order

Link: https://leetcode.com/problems/customers-who-never-order/submissions/1657990369

Level: Easy

My approach: It is easier to work backwards with this problem. First find the full ID list from Orders, then determine which ID's from Customers are not part of the list previously retrieved.

What I learned: I first tried it using '=null', this made me realise that IS NULL and =Null are not the same.

Problem: Average Time of Process per Machine

Link: https://leetcode.com/problems/average-time-of-process-per-

machine/submissions/1658003948

Level: Easy

My approach: First figure out how to calculate the processing time. Use the 'if' function to set the start time as a positive and the end time as a negative to get the total time per process.

What I learned: Also break the problem into sections to make it easier.

Problem: Big Countries

Link: https://leetcode.com/problems/big-countries/submissions/1661196681

Level: Easy

My approach: Use the WHERE function.

What I learned: This problem was pretty straight forward using "where" and "or" to filter through the data.

Problem: Recyclable and low fat products

Link: https://leetcode.com/problems/recyclable-and-low-fat-

products/submissions/1661200515

Level: Easy

My approach: Using WHERE

What I learned: This problem was pretty straight forward using "where" and "and" to filter through the data.

Problem: List the products ordered in a period

Link: https://leetcode.com/problems/list-the-products-ordered-in-a-

period/submissions/1661217424

Level: Easy

My approach: Joining the two tables based on the mutual product_id.

What I learned: This was a reminder that when I use both the WHERE and the HAVING function, that the WHERE function should always come first.

Problem: User Activity for the Past 30 Days

Link: https://leetcode.com/problems/user-activity-for-the-past-30-days-i/submissions/1661716872

Level: Easy

My approach: Grouping by activity date

What I learned: Reminder to count distinct user-id if we based the count on individual users.

Problem: Swap Salary

Link: https://leetcode.com/problems/swap-salary/submissions/1661735396

Level: Easy

My approach: Use the update function

What I learned: First name the table you want to update, then 'set' the column name you want to work with, then use Case to make changes.

Problem: Tree Node

Link: https://leetcode.com/problems/tree-node/submissions/1662704288

Level: Medium

My approach: Use CASE

What I learned: Creating a subquery and using "in" to retrieve fields that are in from that subquery.

Problem: Students and Examinations

Link: https://leetcode.com/problems/students-and-

examinations/submissions/1662725903

Level: Easy

My approach: Use cross join to join all the subjects with all the students.

What I learned: Distinct count should not be used in this problem. Use cross join to assign each and every subject to every student.

Problem: Delete duplicate emails

Link: https://leetcode.com/problems/delete-duplicate-emails/submissions/1662970189

Level: Easy

My approach: Do a self join

What I learned: Join the tables based on the identical emails, then use "Where" to find the table with the bigger id, this table should then be deleted.

Problem: Project Employees

Link: https://leetcode.com/problems/project-employees-i/submissions/1663629201

Level: Easy

My approach: Use a join and group by project-id.

What I learned: This was a pretty straight forward problem where results were required to be rounded up to two decimals.

Problem: Replace Employee Id with the Unique Identifier

Link: https://leetcode.com/problems/replace-employee-id-with-the-unique-identifier/submissions/1663639072

Level: Easy

My approach: Use a right join

What I learned: This problem wants to include all the names of the employees even if their unique identifier is null, therefore we use a right join.

Problem: Restaurant Growth

Link: https://leetcode.com/problems/restaurant-growth/submissions/1663681809

Level: Medium

My approach: Use a window function

What I learned: The average option did not work, I had to use a sum function and then divide it by seven myself. Also, to exclude the first 6 days I used 'offset'.

Problem: Employees earning more than their managers

Link: https://leetcode.com/problems/employees-earning-more-than-their-managers/submissions/1681941762

Level: Easy

My approach: Use inner join

What I learned: Use a self join table and match the managerId with the original id.

Problem: Duplicate emails

Link: https://leetcode.com/problems/duplicate-emails/submissions/1706002500

Level: Easy

My approach: Group by email

What I learned: Group by email and check where there is a count higher than 1.

Problem: The number of employees which report to each employee

Link: https://leetcode.com/problems/the-number-of-employees-which-report-to-each-employee/submissions/1706025401

Level: Easy

My approach: Self join

What I learned: Use self join and use the second table to create the reports to column.

Problem: Nth highest salary

Link: https://leetcode.com/problems/nth-highest-salary/submissions/1706047567

Level: Medium

My approach: Dense rank

What I learned: Use the dense rank function to get the Nth position

Problem: Queries quality and percentage

Link: https://leetcode.com/problems/queries-quality-and-

percentage/submissions/1584644483

Level: Easy

My approach: Group by

What I learned: Calculate the quality by using sum and count, then calculate the quality percentage of the columns with ratings under 3.

Problem: Consecutive numbers

Link: https://leetcode.com/problems/consecutive-numbers/submissions/1586057878

Level: Medium

My approach: Lag and Lead

What I learned: Use the lag function to see what number appeared before the current number, and u se the lead function to see what number appeared after the current number, if all they are both identical to current number, those should be shown in results.

Problem: Human traffic of stadium

Link: https://leetcode.com/problems/human-traffic-of-stadium/submissions/1706254878

Level: Hard

My approach: CTE

What I learned: Create a CTE to eliminate where people count is less than 100, then do a select based on that.