**DAY 1**

595. Big Countries

Text

Description automatically generated with medium confidence

SELECT name, area, population

FROM World

WHERE population >= 25000000 OR area >= 3000000

Graphical user interface, text, application, email

Description automatically generated

SELECT product\_id

FROM Products

WHERE low\_fats = 'Y' AND recyclable = 'Y'

Graphical user interface, application, table

Description automatically generated

SELECT name

FROM Customer

WHERE referee\_id != 2 OR referee\_id IS NULL

Graphical user interface, text, application

Description automatically generatedTable

Description automatically generated

SELECT c.name AS Customers

FROM Customers c

LEFT JOIN Orders o

ON c.id = o.customerId

WHERE o.customerId IS NULL

**DAY 2**

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface

Description automatically generated

SELECT employee\_id, (if(employee\_id % 2 != 0 AND name NOT LIKE ‘M%’, salary, 0)) AS bonus

FROM Employees

ORDER BY employee\_id;

Graphical user interface, table

Description automatically generated with medium confidence

UPDATE Salary

SET sex = CASE sex

            WHEN 'm' THEN 'f'

            else 'm'

            END

Graphical user interface, text, application, email

Description automatically generated

DELETE p1 FROM Person p1

INNER JOIN Person p2

WHERE

    p1.id > p2.id AND

    p1.email = p2.email;

**DAY 3**

**Graphical user interface, text, application, email

Description automatically generated**

SELECT user\_id, CONCAT(UPPER(SUBSTRING(name, 1, 1)), LOWER(SUBSTRING(name, 2))) as name

FROM Users

ORDER BY user\_id

Graphical user interface, text, application, email

Description automatically generated

SELECT sell\_date, COUNT(DISTINCT product) AS num\_sold, GROUP\_CONCAT(DISTINCT product ORDER BY product ASC) AS products

FROM Activities

GROUP BY sell\_date

Graphical user interface, text, application, email

Description automatically generated

SELECT patient\_id, patient\_name, conditions

FROM Patients

WHERE conditions LIKE '% DIAB1%' OR conditions LIKE 'DIAB1%'

Graphical user interface, text, application

Description automatically generated

SELECT s.employee\_id

FROM Employees e

RIGHT JOIN Salaries s

ON e.employee\_id = s.employee\_id

WHERE e.employee\_id IS NULL

UNION

SELECT e.employee\_id

FROM Employees e

LEFT JOIN Salaries s

ON e.employee\_id = s.employee\_id

WHERE s.employee\_id IS NULL

ORDER BY employee\_id

1795. Rearrange Products Table

Graphical user interface, application

Description automatically generated

SELECT product\_id, 'store1' AS store, store1 AS price

FROM products

WHERE store1 IS NOT NULL

UNION

SELECT product\_id, 'store2' AS store, store2 AS price

FROM products

WHERE store2 IS NOT NULL

UNION

SELECT product\_id, 'store3' AS store, store3 AS price

FROM products

WHERE store3 IS NOT NULL

Graphical user interface, text, application, email

Description automatically generated

SELECT id,

    CASE WHEN p\_id IS NULL THEN 'Root'

         WHEN id IN (SELECT p\_id FROM tree) THEN 'Inner'

         ELSE 'Leaf'

    END AS Type

FROM tree

Graphical user interface, text, application, email

Description automatically generated

SELECT MAX(salary) AS SecondHighestSalary

FROM Employee

WHERE salary < (SELECT MAX(salary) FROM Employee);

**DAY 5**

175. Combine Two Tables

Table

Description automatically generated

SELECT p.firstName, p.lastName, a.city, a.state

FROM Person p

LEFT JOIN Address a

ON p.personId = a.personId

1581. Customer Who Visited but Did Not Make Any Transactions

Table

Description automatically generated

SELECT v.customer\_id,  COUNT(\*) AS count\_no\_trans

FROM Visits v

LEFT JOIN Transactions t

ON v.visit\_id = t.visit\_id

WHERE t.visit\_id IS NULL

GROUP BY v.customer\_id

ORDER BY count\_no\_trans

1148. Article Views I

Table

Description automatically generated

SELECT DISTINCT viewer\_id AS ID

FROM Views

WHERE author\_id = viewer\_id

ORDER BY id

**DAY 6**

197. Rising Temperature

**Table

Description automatically generated**

SELECT w1.id

FROM Weather w1, Weather w2

WHERE w1.Temperature > w2.Temperature AND datediff(w1.recordDate, w2.recordDate) = 1;

607. Sales Person

**Table

Description automatically generated**

SELECT s.name

FROM SalesPerson s

WHERE s.sales\_id NOT IN

(SELECT o.sales\_id

 FROM Orders o

 LEFT JOIN Company c

 ON o.com\_id = c.com\_id

 WHERE c.name = 'RED')