56_Customers Who Never Order Easy - Solution

Source - https://leetcode.com/problems/customers-who-never-order/description/
Running Notes

- find all customers who never order anything
- we have 2 tables customers and orders and the common this between them is
 id

```
-- Write your PostgreSQL query statement below
SELECT
Customers.name AS Customers
FROM
Customers
LEFT JOIN
Orders
ON Customers.id = Orders.customerId
WHERE customerid IS NULL
```

```
-- Write your PostgreSQL query statement below
SELECT
name as Customers
FROM CUSTOMERS
WHERE id NOT IN (SELECT customerId FROM Orders)
```

NOT IN Query:

o In the NOT IN query, PostgreSQL first executes the subquery to retrieve all customerId values from the orders table. If an index exists on the customerId column, this step is very efficient.

 After the subquery runs, PostgreSQL filters the customers table by checking each id against the precomputed subquery results. This filtering step avoids creating large intermediate results, making the query faster.

• LEFT JOIN Query:

- o In the LEFT JOIN query, PostgreSQL joins the Customers table with the Orders table first. This creates an intermediate result that includes all rows from Customers, paired with matching rows from Orders (or NULL if no match exists).
- After performing the join, PostgreSQL applies the WHERE customerId IS NULL condition to filter out the rows that have matches in orders. This join step adds significant overhead because it processes and stores unnecessary rows before filtering.

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