

Sales Person

Question:

<https://leetcode.com/problems/sales-person/>

SALESPERSON	
Column	Type
sales_id	int
name	varchar
salary	int
comm_rate	int
hire_date	date

sales_id is the primary key column for this table.

Each row of this table indicates the name and the ID of a salesperson alongside their salary, commission rate, and hire date.

COMPANY	
Column	Type
com_id	int
name	varchar
city	varchar

com_id is the primary key column for this table.

Each row of this table indicates the name and the ID of a company and the city in which the company is located.

ORDERS	
Column	Type
order_id	int
order_date	date
com_id	int
sales_id	int
amount	int

order_id is the primary key column for this table.

com_id is a foreign key to com_id from the Company table.

sales_id is a foreign key to com_id from the SalesPerson table.

Each row of this table contains information about one order. This includes the ID of the company, the ID of the salesperson, the date of the order, and the amount paid.

Write an SQL query to report the names of all the salespersons who did not have any orders related to the company with the name "RED".

Return the result table in any order.

Query 1(Accepted)

My approach was to use a subquery to find all the SalesPerson who ordered **RED** and then filter the names who are not in this subquery table.

```
SELECT

    name

FROM SalesPerson as sp

WHERE sp.sales_id NOT IN (SELECT sales_id

                            FROM Orders AS O

                            LEFT JOIN Company As C

                                ON C.com_id = O.com_id

                            WHERE name = 'RED')
```

Query 2(Accepted)

Instead of using a subquery, I use joins on all three tables.

The first Join is on **ORDERS** and **COMPANY** tables and finding the salesperson who ordered **RED**.

Then **RIGHT JOIN** on the **SALESPERSON** table and finding the salesperson name who have null ID. The reason for using **RIGHT JOIN** is that we wanted to include all the names from **SALESPERSON** table and just filter the **NULL** ones.

```
SELECT salesperson.name

FROM orders AS O

JOIN company AS C

ON (O.com_id = C.com_id and C.name = 'RED')

RIGHT JOIN salesperson ON salesperson.sales_id = O.sales_id

where O.sales_id is null
```

NOTE : Query 2 was the fastest query!!!