LeetCode Practice – I

Problem – 607.Sales Person:

607. Sales Person

Easy   Topics   Companies   Hint

SQL Schema >   Pandas Schema >
Table: SalesPerson

```
+------------------+---------+
| Column Name      | Type    |
+------------------+---------+
| sales_id         | int     |
| name             | varchar |
| salary           | int     |
| commission_rate  | int     |
| hire_date        | date    |
+------------------+---------+
```
sales_id is the primary key (column with unique values) 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.

Query
Write a solution to find the names of all the salespersons who did not have any orders
related to the company with the name "RED"

SELECT s.name
FROM SalesPerson s
WHERE s.sales_id NOT IN (
SELECT o.sales_id
FROM Orders o
JOIN Company c
ON o.com_id = c.com_id
WHERE c.name = 'RED'
);
Input

```
SalesPerson table:
+----------+------+--------+-----------------+------------+
| sales_id | name | salary | commission_rate | hire_date  |
+----------+------+--------+-----------------+------------+
| 1        | John | 100000 | 6               | 4/1/2006   |
| 2        | Amy  | 12000  | 5               | 5/1/2010   |
| 3        | Mark | 65000  | 12              | 12/25/2008 |
| 4        | Pam  | 25000  | 25              | 1/1/2005   |
| 5        | Alex | 5000   | 10              | 2/3/2007   |
+----------+------+--------+-----------------+------------+
Company table:
+--------+--------+----------+
| com_id | name   | city     |
+--------+--------+----------+
| 1      | RED    | Boston   |
| 2      | ORANGE | New York |
| 3      | YELLOW | Boston   |
| 4      | GREEN  | Austin   |
+--------+--------+----------+
Orders table:
+----------+------------+--------+----------+--------+
| order_id | order_date | com_id | sales_id | amount |
+----------+------------+--------+----------+--------+
| 1        | 1/1/2014   | 3      | 4        | 10000  |
| 2        | 2/1/2014   | 4      | 5        | 5000   |
| 3        | 3/1/2014   | 1      | 1        | 50000  |
| 4        | 4/1/2014   | 1      | 4        | 25000  |
+----------+------------+--------+----------+--------+
```

Output

```
+--------+
| name   |
+--------+
| Amy    |
| Mark   |
| Alex   |
+--------+
```

LeetCode Practice – II

Problem – 577.Employee Bonus:

577. Employee Bonus

Easy · Topics · Companies · Hint

SQL Schema · Pandas Schema
Table: Employee

```
+---------------+---------+
| Column Name   | Type    |
+---------------+---------+
| empId         | int     |
| name          | varchar |
| supervisor    | int     |
| salary        | int     |
+---------------+---------+
```

empId is the column with unique values for this table.
Each row of this table indicates the name and the ID of an employee in addition
to their salary and the id of their manager.

Query

Write a solution to report the name and bonus amount of each employee who satisfies
either of the following:
- The employee has a bonus less than 1000.
- The employee did not get any bonus.

```
SELECT e.name, b.bonus
FROM Employee e
LEFT JOIN Bonus b
ON e.empId = b.empId
WHERE b.bonus < 1000
OR b.bonus IS NULL;
```

Input

```
Employee table:
+-------+--------+------------+--------+
| empId | name   | supervisor | salary |
+-------+--------+------------+--------+
| 3     | Brad   | null       | 4000   |
| 1     | John   | 3          | 1000   |
| 2     | Dan    | 3          | 2000   |
| 4     | Thomas | 3          | 4000   |
+-------+--------+------------+--------+

Bonus table:
+-------+-------+
| empId | bonus |
+-------+-------+
| 2     | 500   |
| 4     | 2000  |
+-------+-------+
```

Output

```
+-------+-------+
| name  | bonus |
+-------+-------+
| Brad  | null  |
| John  | null  |
| Dan   | 500   |
+-------+-------+
```

LeetCode Practice – III

Problem – 183.CustomersmWho Never Order:

Query

Write a solution to find all customers who never order anything

SELECT name
FROM Customers
WHERE id NOT IN (
SELECT customerId
FROM Orders
);
Input

```
Customers table:
+------+---------+
| id   | name    |
+------+---------+
| 1    | Joe     |
| 2    | Henry   |
| 3    | Sam     |
| 4    | Max     |
+------+---------+
Orders table:
+------+------------+
| id   | customerId |
+------+------------+
| 1    | 3          |
| 2    | 1          |
+------+------------+
```

Output

```
+-----------+
| Customers |
+-----------+
| Henry     |
| Max       |
+-----------+
```