175. Combine Two Tables Easy 2.6K 204 Companies SQL Schema Table: Person
++   Column Name   Type   ++
personId   int     lastName   varchar     firstName   varchar   ++
personld is the primary key column for this table.  This table contains information about the ID of some persons and their first and last names.
Table: Address
+++
Column Name   Type   ++
addressId   int     personId   int     city   varchar     state   varchar
++
addressld is the primary key column for this table.  Each row of this table contains information about the city and state of one person with ID = Personld.
Write an SQL query to report the first name, last name, city, and state of each person in the Person table. If the address of a personld is not present in the Address table, report null instead.
Return the result table in any order.
The query result format is in the following example.

Example 1:

Person table:

Input:

```
+----+
| personId | lastName | firstName |
+----+
    | Wang | Allen |
   |Alice |Bob |
+----+
Address table:
+----+
| addressId | personId | city | state |
+----+
    | 2 | New York City | New York |
   | 3 | Leetcode | California |
Output:
+----+
| firstName | lastName | city | state |
+----+
| Allen | Wang | Null | Null |
   | Alice | New York City | New York |
+----+
```

There is no address in the address table for the personId = 1 so we return null in their city and state.

addressId = 1 contains information about the address of personId = 2.

182. Duplicate Emails

Easy

1.5K

53

Companies

SQL Schema

Explanation:

Table: Person

```
+-----+
| Column Name | Type |
+-----+
| id | int |
| email | varchar |
+------+
```

id is the primary key column for this table.

Each row of this table contains an email. The emails will not contain uppercase letters.

Write an SQL query to report all the duplicate emails.

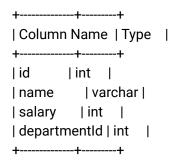
Return the result table in any order.

The query result format is in the following example.

```
Example 1:
Input:
Person table:
+---+
|id|email|
+---+
|1 |a@b.com|
|2 | c@d.com |
|3 |a@b.com|
+---+
Output:
+----+
|Email |
+----+
| a@b.com |
+----+
Explanation: a@b.com is repeated two times.
SELECT a.email
FROM (SELECT email, COUNT(*) as cnt
FROM Person
GROUP BY email) as a
where a.cnt > 1;
```

## 185. Department Top Three Salaries

Hard 1.4K 197 Companies SQL Schema Table: Employee



id is the primary key column for this table.

departmentId is a foreign key of the ID from the Department table.

Each row of this table indicates the ID, name, and salary of an employee. It also contains the ID of their department.

Table: Department

+-----+
| Column Name | Type |
+-----+
| id | int |
| name | varchar |
+------+

id is the primary key column for this table.

Each row of this table indicates the ID of a department and its name.

A company's executives are interested in seeing who earns the most money in each of the company's departments. A high earner in a department is an employee who has a salary in the top three unique salaries for that department.

Write an SQL query to find the employees who are high earners in each of the departments.

Return the result table in any order.

The query result format is in the following example.

Example 1:

Input:

```
Employee table:
+---+
| id | name | salary | departmentId |
+---+
|1 |Joe |85000 |1
|2 | Henry | 80000 | 2
                      ١
|3 |Sam |60000 |2
|4 | Max | 90000 | 1
| 5 | Janet | 69000 | 1
                      I
|6 | Randy | 85000 | 1
|7 | Will | 70000 | 1
+---+-----
Department table:
+---+
|id|name|
+---+
|1 |IT |
| 2 | Sales |
+---+
Output:
+----+
| Department | Employee | Salary |
+----+
           | 90000 |
| IT
      | Max
| IT
      | Joe
           | 85000 |
| IT
      |Randy | 85000 |
HIT
      | Will | 70000 |
| Sales
       | Henry | 80000 |
| Sales
       |Sam |60000 |
+----+
```

## Explanation:

In the IT department:

- Max earns the highest unique salary
- Both Randy and Joe earn the second-highest unique salary
- Will earns the third-highest unique salary

## In the Sales department:

- Henry earns the highest salary
- Sam earns the second-highest salary
- There is no third-highest salary as there are only two employees

```
select e1.Name as 'Employee', e1.Salary
from Employee e1
where 3 >
(
    select count(distinct e2.Salary)
    from Employee e2
    where e2.Salary > e1.Salary
)
.
```