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## 182. Duplicate Emails 🗗

July 11, 2017 | 74.9K views

Write a SQL query to find all duplicate emails in a table named Person.

```
+---+
| Id | Email |
+---+
| 1 | a@b.com |
| 2 | c@d.com |
| 3 | a@b.com |
+---+
```

For example, your query should return the following for the above table:

```
+-----+
| Email |
+-----+
| a@b.com |
+----+
```

Solution

Algorithm

Approach I: Using **GROUP BY** and a temporary table [Accepted]

## Duplicated emails existed more than one time. To count the times each email exists, we can use the following

from Person

group by Email;

code.

select Email, count(Email) as num

```
| Email | num |
|------|----|
| a@b.com | 2 |
| c@d.com | 1 |
```

select Email from

Taking this as a temporary table, we can get a solution as below.

```
select Email, count(Email) as num
from Person
group by Email
) as statistic
where num > 1
;
Approach II: Using GROUP BY and HAVING condition [Accepted]
```

A more common used way to add a condition to a **GROUP BY** is to use the **HAVING** clause, which is much simpler and more efficient.

So we can rewrite the above solution to this one.

MySQL

select Email
from Person

group by Email

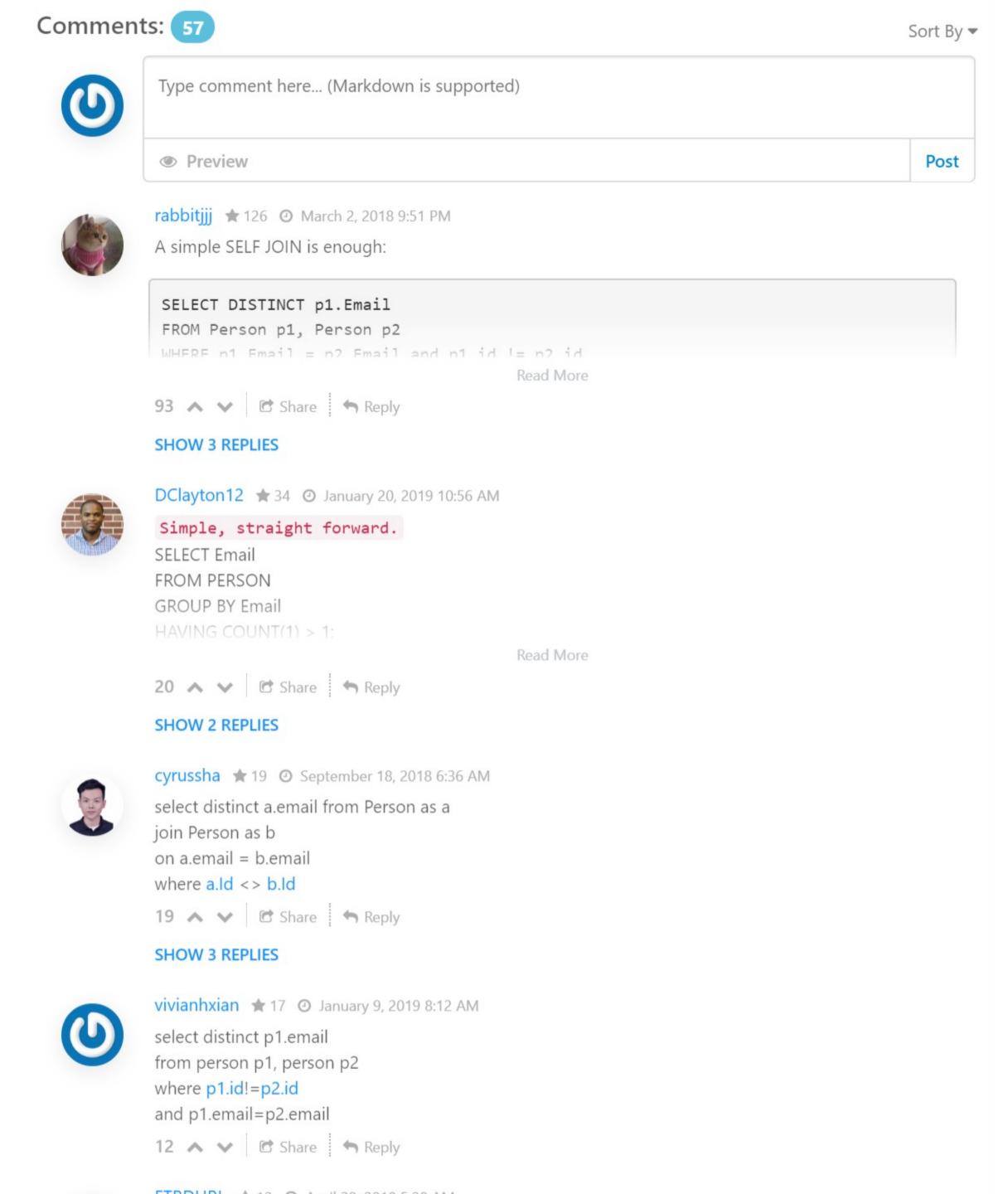
```
having count(Email) > 1;

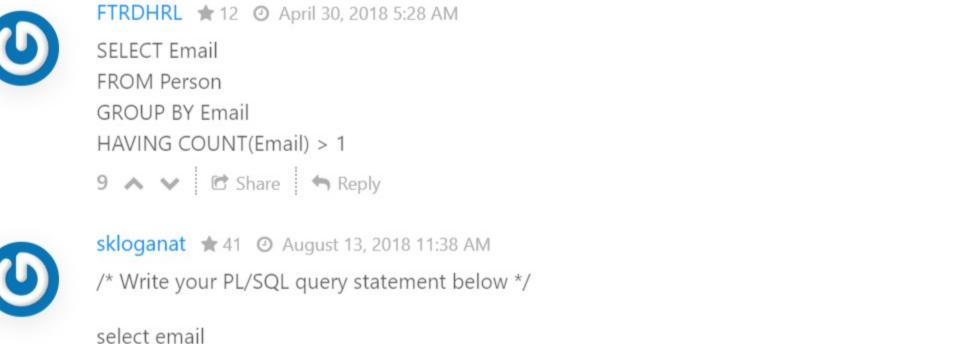
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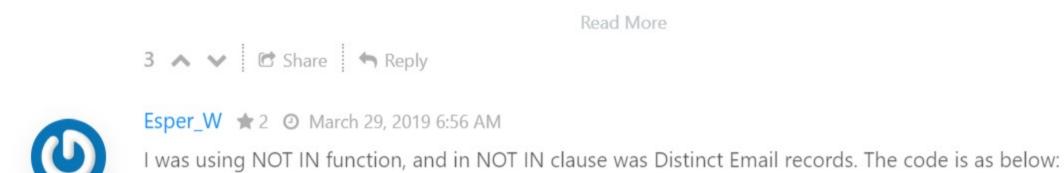
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from person

SELECT Email

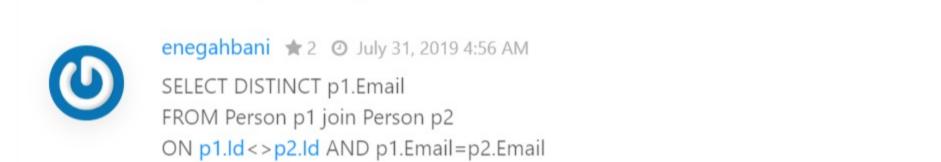
NOT IN (

group by email

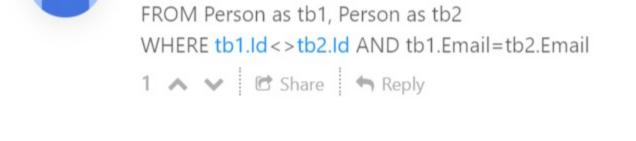
select Email from Person group by Email having count(Email) > 1;

2 A V C Share Reply

1 A V C Share Reply







( 1 2 3 4 5 6 >

SELECT DISTINCT tb1.Email AS Email