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182. Duplicate Emails 🗗

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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
```

select Email, count(Email) as num

select Email from

Note: All emails are in lowercase.

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

code.

```
from Person
 group by Email;
   Email num
   a@b.com 2
  c@d.com 1
Taking this as a temporary table, we can get a solution as below.
```

from Person

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

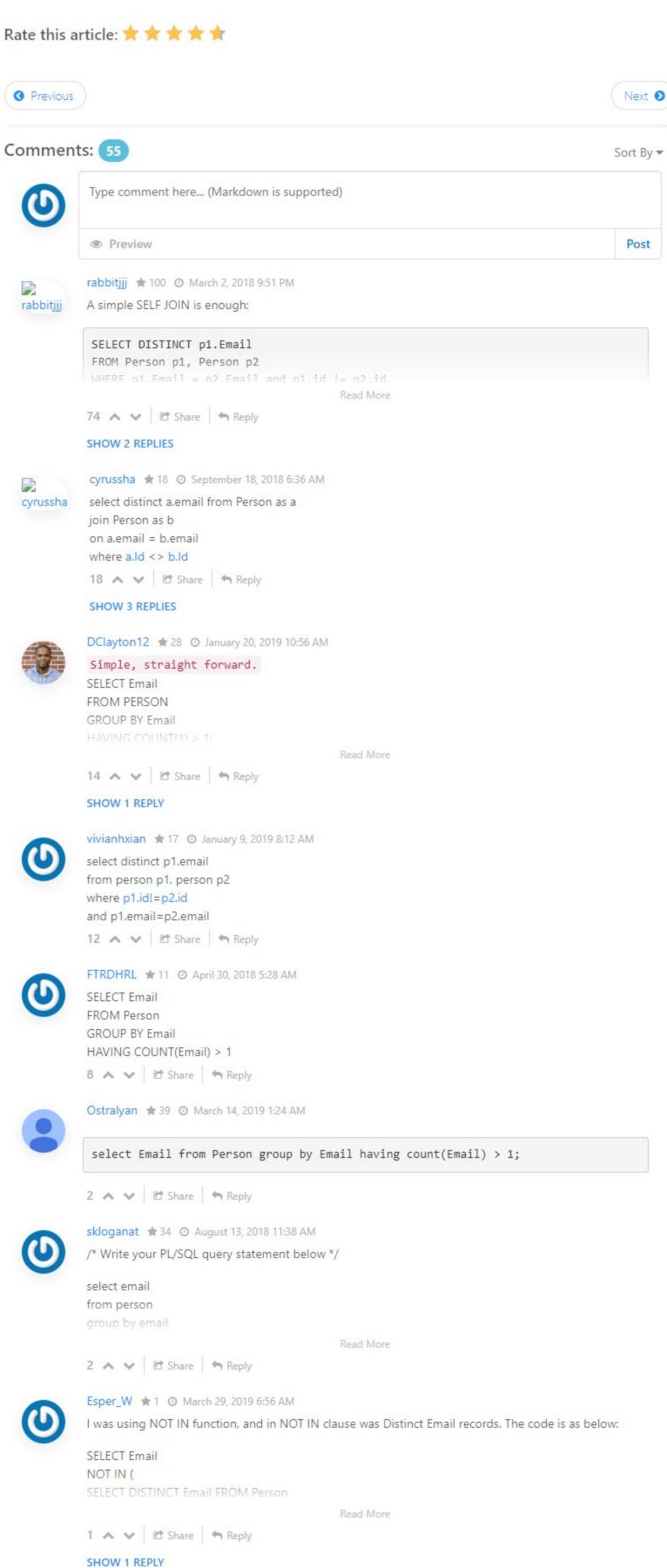
A more common used way to add a condition to a GROUP BY is to use the HAVING clause, which is much simpler and more efficient.

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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select distinct Email from Person

1 A V C Share Share

FROM Person p1 join Person p2

0 ∧ ∨ ☑ Share ← Reply

(123456)

SELECT DISTINCT p1.Email

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ON p1.ld<>p2.ld AND p1.Email=p2.Email

where Email in (

group by Email

select Email from Person