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July 10, 2017 | 73.9K views

Write a SQL query to **delete** all duplicate email entries in a table named Person , keeping only unique emails based on its smallest Id.

```
+----+
| Id | Email
| 1 | john@example.com |
2 | bob@example.com
3 | john@example.com |
+----+
Id is the primary key column for this table.
```

For example, after running your query, the above Person table should have the following rows:

```
Id | Email
+---+
| 1 | john@example.com |
2 | bob@example.com |
+----+
```

Your output is the whole Person table after executing your sql. Use delete statement.

Note:

Solution

```
Algorithm
```

Approach: Using **DELETE** and **WHERE** clause [Accepted]

By joining this table with itself on the Email column, we can get the following code.

```
SELECT p1.*
  FROM Person p1,
      Person p2
  WHERE
      p1.Email = p2.Email
Then we need to find the bigger id having same email address with other records. So we can add a new
```

condition to the WHERE clause like this.

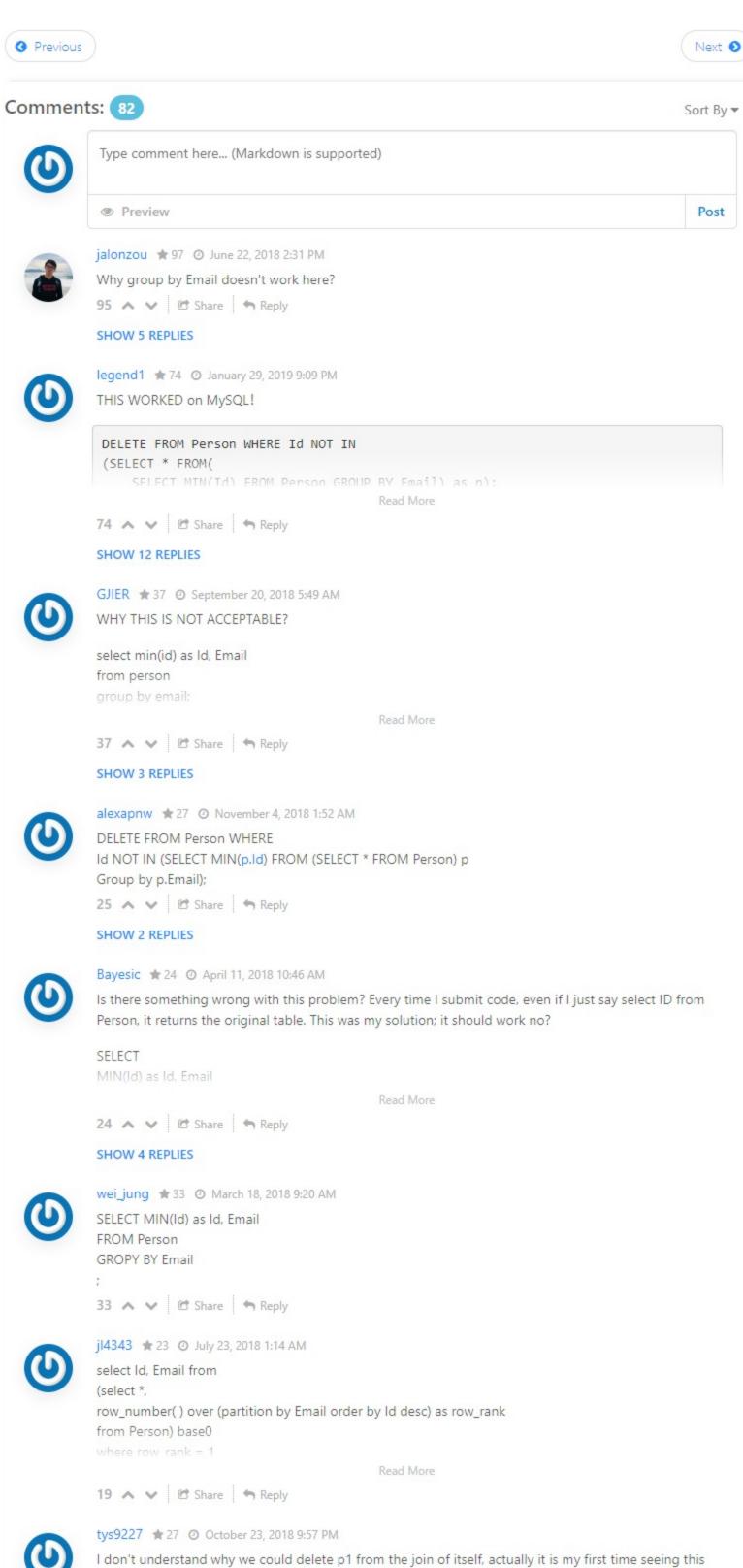
```
SELECT p1.*
  FROM Person p1,
      Person p2
      p1.Email = p2.Email AND p1.Id > p2.Id
As we already get the records to be deleted, we can alter this statement to DELETE in the end.
```

MySQL

DELETE p1 FROM Person p1,

```
Person p2
 WHERE
     p1.Email = p2.Email AND p1.Id > p2.Id
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```

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format. How does this work exactly? And the condition p1.ld > p2.ld can only rule out the dual

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(1 2 3 4 5 6 ... 8 9 >

duplicates, it wouldn't apply to

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luoanfast000 ★ 37 ② March 31, 2019 2:36 AM

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DELETE FROM Person WHERE ID NOT IN (SELECT MIN(id) FROM Person

the case where there were more than 2 duplicates, right?