

196. Delete Duplicate Emails

Easy

Topics

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Table: `Person`

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

`id` is the primary key (column with unique values) for this table.
Each row of this table contains an email. The emails will not contain uppercase letters.

Write a solution to **delete** all duplicate emails, keeping only one unique email with the smallest `id`.

For SQL users, please note that you are supposed to write a `DELETE` statement and not a `SELECT` one.

For Pandas users, please note that you are supposed to modify `Person` in place.

After running your script, the answer shown is the `Person` table. The driver will first compile and run your piece of code and then show the `Person` table. The final order of the `Person` table **does not matter**.

The result format is in the following example.

Example 1:

Input:

Person table:

```
+-----+-----+
| id | email                |
+-----+-----+
| 1  | john@example.com    |
| 2  | bob@example.com     |
| 3  | john@example.com    |
+-----+-----+
```

Output:

```
+-----+-----+
| id | email                |
+-----+-----+
| 1  | john@example.com    |
| 2  | bob@example.com     |
+-----+-----+
```

Explanation: john@example.com is repeated two times. We keep the row with the smallest Id = 1.

MySQL:

Write your MySQL query statement below

```
DELETE p1
FROM Person p1
JOIN Person p2
ON p1.email = p2.email
AND p1.id > p2.id;
```

Pandas:

import pandas as pd

```
def delete_duplicate_emails(person: pd.DataFrame) -> None:
    # Sort by id so that the smallest id for each email comes first
    person.sort_values(by="id", inplace=True)
    # Drop duplicates based on email, keeping the first (smallest id)
    person.drop_duplicates(subset="email", keep="first", inplace=True)
```

PostgreSQL:

-- Write your PostgreSQL query statement below

```
DELETE FROM Person
```

```
WHERE id NOT IN (
```

```
    SELECT MIN(id)
```

```
    FROM Person
```

```
    GROUP BY email
```

```
);
```