**subscriptions table**

| **column** | **type** |
| --- | --- |
| user\_id | int |
| start\_date | date |
| end\_date | date |

Given a table of product subscriptions with a subscription start date and end date for each user, write a query that returns true or false whether each user has a subscription date range that overlaps with any other user.

**Example:**

| **user\_id** | **start\_date** | **end\_date** |
| --- | --- | --- |
| 1 | 2019-01-01 | 2019-01-31 |
| 2 | 2019-01-15 | 2019-01-17 |
| 3 | 2019-01-29 | 2019-02-04 |
| 4 | 2019-02-05 | 2019-02-10 |

**Output**

| **user\_id** | **overlap** |
| --- | --- |
| 1 | 1 |
| 2 | 1 |
| 3 | 1 |
| 4 | 0 |

Solution

Overlap dates means …. Start date of table A should come before the end date of table B and similarly end date of table A should come after the start date of table B 🡪 then it’s a overlap