

183. Customers Who Never Order

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Suppose that a website contains two tables, the **Customers** table and the **Orders** table. Write a SQL query to find all customers who never order anything.

Table: **Customers**.

```
+-----+
| Id | Name |
+-----+
| 1 | Joe  |
| 2 | Henry|
| 3 | Sam  |
| 4 | Max  |
+-----+
```

Table: **Orders**.

```
+-----+
| Id | CustomerId |
+-----+
| 1 | 3          |
| 2 | 1          |
+-----+
```

Using the above tables as example, return the following:

```
+-----+
| Customers |
+-----+
| Henry     |
| Max       |
+-----+
```

Solution

Approach: Using sub-query and **NOT IN** clause [Accepted]

Algorithm

If we have a list of customers who have ever ordered, it will be easy to know who never ordered.

We can use the following code to get such list.

```
select customerid from orders;
```

Then, we can use **NOT IN** to query the customers who are not in this list.

MySQL

```
select customers.name as 'Customers'
from customers
where customers.id not in
(
    select customerid from orders
);
```

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