

CUSTOMER IDENTIFICATION

APRIL 2024

Join, Aggregate & Clause Functions

Leetcode

Intermediate

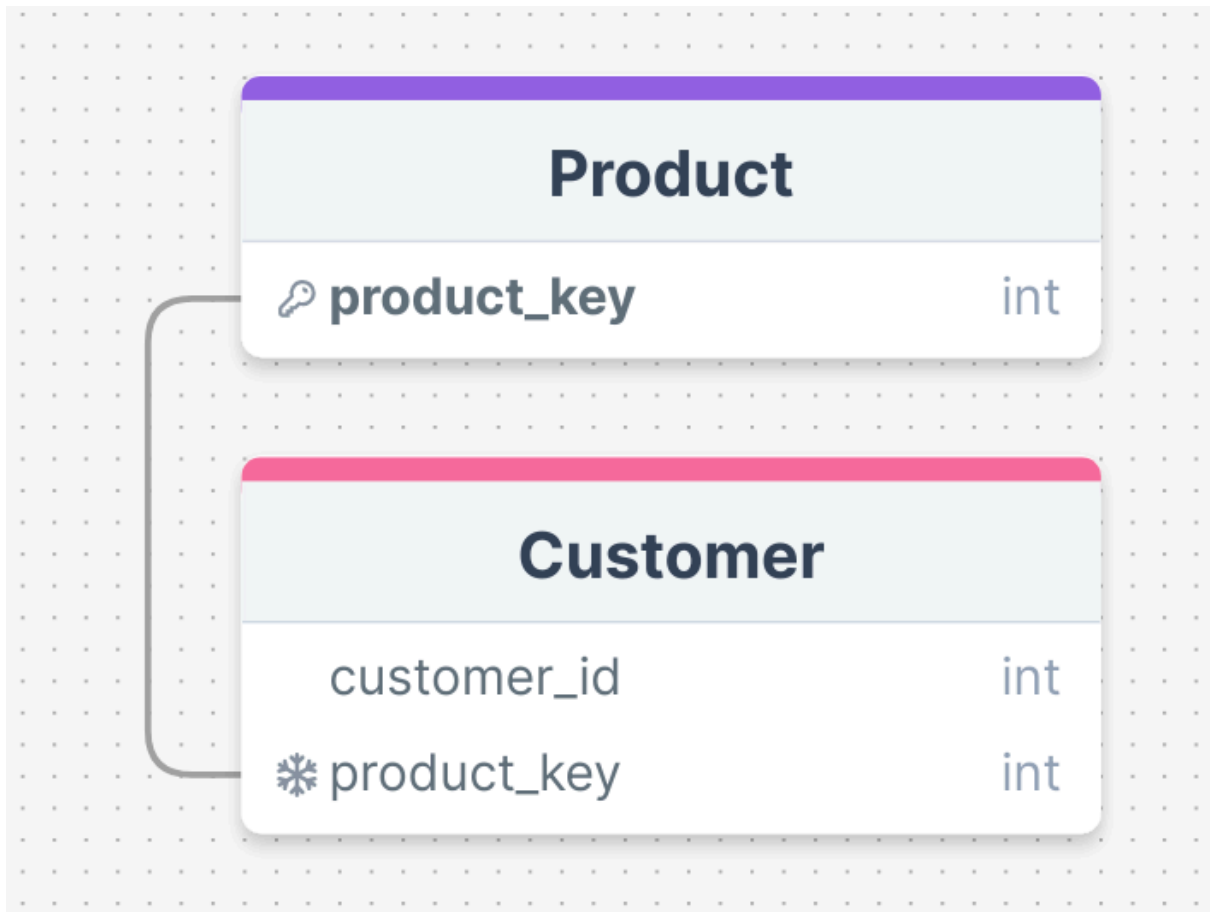
Write a solution to report the customer ids from the Customer table that bought all the products in the Product table.

Return the result table in **any order**.

The result format is in the following example.

INPUT FORMAT

The main source tables are **PRODUCT** and **CUSTOMER**.



Customer table:

customer_id	product_key
1	5
2	6
3	5
3	6
1	6

Product table:

product_key

```
| product_key |
```

```
+-----+
```

```
| 5 |
```

```
| 6 |
```

```
+-----+
```

CODE SOLUTION

```
SELECT c.customer_id
FROM Product p
JOIN Customer c ON c.product_key = p.product_key
GROUP BY 1
HAVING COUNT(DISTINCT c.product_key) = (SELECT COUNT (product_key) FROM Product)
ORDER BY 1
```

SOLUTION PROCESS

- Group function: Grouped by column number to remove duplicates
 - Having function: Used to filter aggregated records based on the number of distinct product keys purchased being equal to number of products available
-

OUTPUT

```
| customer_id |
```

```
| ----- |
```

```
| 1 |
```

```
| 3 |
```
