

DESCRIPTION

Table: Customer

+-----+-----+	
Column Name Type	
+-----+-----+	
customer_id int	
product_key int	
+-----+-----+	

This table may contain duplicates rows.

customer_id is not NULL.

product_key is a foreign key (reference column) to Product table.

Table: Product

+-----+-----+	
Column Name Type	
+-----+-----+	
product_key int	
+-----+-----+	

product_key is the primary key (column with unique values) for this table.

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.

Example 1:

Input:

Customer table:

+-----+-----+	
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customer_id	product_key
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1	5
2	6
3	5
3	6
1	6

Product table:

product_key

Output:

customer_id

Explanation:

The customers who bought all the products (5 and 6) are customers with IDs 1 and 3.

SOLUTION

MySQL:

- In a subquery, select the number of product_key using COUNT

- For the customers who bought all the products, select customer_id who has the same number of product_key (from the above subquery) using HAVING, COUNT and DISTINCT

```
SELECT customer_id
FROM Customer
GROUP BY customer_id
HAVING COUNT(DISTINCT product_key) = (SELECT COUNT(product_key) FROM Product);
```

PostgreSQL:

- Same approach as above

```
SELECT customer_id
FROM Customer
GROUP BY 1
HAVING COUNT(DISTINCT product_key) = (SELECT COUNT(*) FROM Product);
```