SQL Schema

Table: Users

+----------------+---------+

| Column Name | Type |

+----------------+---------+

| user\_id | int |

| join\_date | date |

| favorite\_brand | varchar |

+----------------+---------+

user\_id is the primary key of this table.

This table has the info of the users of an online shopping website where users can sell and buy items.

Table: Orders

+---------------+---------+

| Column Name | Type |

+---------------+---------+

| order\_id | int |

| order\_date | date |

| item\_id | int |

| buyer\_id | int |

| seller\_id | int |

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order\_id is the primary key of this table.

item\_id is a foreign key to the Items table.

buyer\_id and seller\_id are foreign keys to the Users table.

Table: Items

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| Column Name | Type |

+---------------+---------+

| item\_id | int |

| item\_brand | varchar |

+---------------+---------+

item\_id is the primary key of this table.

Write an SQL query to find for each user, whether the brand of the second item (by date) they sold is their favorite brand. If a user sold less than two items, report the answer for that user as no.

It is guaranteed that no seller sold more than one item on a day.

The query result format is in the following example:

Users table:

+---------+------------+----------------+

| user\_id | join\_date | favorite\_brand |

+---------+------------+----------------+

| 1 | 2019-01-01 | Lenovo |

| 2 | 2019-02-09 | Samsung |

| 3 | 2019-01-19 | LG |

| 4 | 2019-05-21 | HP |

+---------+------------+----------------+

Orders table:

+----------+------------+---------+----------+-----------+

| order\_id | order\_date | item\_id | buyer\_id | seller\_id |

+----------+------------+---------+----------+-----------+

| 1 | 2019-08-01 | 4 | 1 | 2 |

| 2 | 2019-08-02 | 2 | 1 | 3 |

| 3 | 2019-08-03 | 3 | 2 | 3 |

| 4 | 2019-08-04 | 1 | 4 | 2 |

| 5 | 2019-08-04 | 1 | 3 | 4 |

| 6 | 2019-08-05 | 2 | 2 | 4 |

+----------+------------+---------+----------+-----------+

Items table:

+---------+------------+

| item\_id | item\_brand |

+---------+------------+

| 1 | Samsung |

| 2 | Lenovo |

| 3 | LG |

| 4 | HP |

+---------+------------+

Result table:

+-----------+--------------------+

| seller\_id | 2nd\_item\_fav\_brand |

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| 1 | no |

| 2 | yes |

| 3 | yes |

| 4 | no |

+-----------+--------------------+

The answer for the user with id 1 is no because they sold nothing.

The answer for the users with id 2 and 3 is yes because the brands of their second sold items are their favorite brands.

The answer for the user with id 4 is no because the brand of their second sold item is not their favorite brand.