Question: Find out the customers who are

- 1. New to the market.d
- 2. Or have deleted their account from the market.

```
-- new to the market

SELECT

c.customer_id

FROM customer AS c

LEFT JOIN customer_purchases AS cp

ON c.customer_id = cp.customer_id

WHERE cp.customer_id IS NULL

UNION DISTINCT

-- deleted accounts

SELECT

cp.customer_id

FROM customer AS c

RIGHT JOIN customer_purchases AS cp

ON c.customer_id = cp.customer_id

WHERE c.customer_id IS NULL
```

We want details about all farmer's market booths and every vendor booth assignment for every market date along with the vendor details

b.booth_number, b.booth_type, vba.market_date, v.vendor_id, v.vendor_name, v.vendor_type FROM `farmers_market.booth` AS b LEFT JOIN `farmers_market.vba` AS vba ON b.booth_number = vba.booth_number INNER JOIN `farmers_market.vendor` AS v

ON vba.vendor id = v.vendor id

SELECT

Display each employee's manager name along with the employee's id from the employee table.

```
SELECT

emp.employeeNumber,

mgr.employeeNumber AS manager_number,

mgr.firstName AS mgr_name

FROM employees AS emp

JOIN employees AS mgr

ON emp.reportsTo = mgr.employeeNumber
```

CROSS JOIN

SELECT*

FROM t1, t2

WHERE t1.id = t2.id;

Alt syntax:

SELECT *

FROM t1

CROSS JOIN t2

Find all employees with a salary higher than their average **departmental salary**

Correlated subquery:

```
SELECT
lastname,
firstname,
salary
FROM employee e1
WHERE e1.salary > (SELECT avg(salary)
FROM employee e2
WHERE e2.dept_id = e1.dept_id)
```