Task 5: SQL Joins (Inner, Left, Right, Full, Cross, Self)

CROSS JOIN:
SELECT c.customer_name, o.product_name
FROM Customers c
CROSS JOIN Orders o;

RIGHT JOIN:
SELECT c.customer_name, o.product_name
FROM Customers c
RIGHT JOIN Orders o
ON c.customer_id = o.customer_id;

Ⓔ Customers

customer_id: INT (PK)

customer_name: VARCHAR(100)

SELF JOIN (Customers):
SELECT A.customer_name AS Customer1, B.customer_name AS Customer2
FROM Customers A, Customers B
WHERE A.customer_id <> B.customer_id;

places

INNER JOIN:
SELECT c.customer_name, o.product_name
FROM Customers c
INNER JOIN Orders o
ON c.customer_id = o.customer_id;

Ⓔ Orders

order_id: INT (PK)

product_name: VARCHAR(100)
customer_id: INT (FK)

LEFT JOIN:
SELECT c.customer_name, o.product_name
FROM Customers c
LEFT JOIN Orders o
ON c.customer_id = o.customer_id;

FULL OUTER JOIN (MySQL workaround):
SELECT c.customer_name, o.product_name
FROM Customers c
LEFT JOIN Orders o
ON c.customer_id = o.customer_id
UNION
SELECT c.customer_name, o.product_name
FROM Customers c
RIGHT JOIN Orders o
ON c.customer_id = o.customer_id;