

S8

Problem Statement:

Relations: Companies(comp_id, name, cost, year), Orders(comp_id, domain, quantity).

Queries: inner join, left join, right join, union, create views, display content.

Code:

```
-- S8: Companies & Orders (MySQL)
CREATE TABLE Companies (
    comp_id INT PRIMARY KEY,
    name VARCHAR(150),
    cost DECIMAL(12, 2),
    year INT
);

CREATE TABLE Orders (
    order_id INT PRIMARY KEY,
    comp_id INT,
    domain VARCHAR(100),
    quantity INT,
    FOREIGN KEY (comp_id) REFERENCES Companies(comp_id)
);

-- 1. Inner join
SELECT c.name, c.cost, o.domain, o.quantity
FROM Companies c
JOIN Orders o ON c.comp_id = o.comp_id;

-- 2. Left outer join
SELECT c.name, c.cost, o.domain, o.quantity
FROM Companies c
LEFT JOIN Orders o ON c.comp_id = o.comp_id;

-- 3. Right outer join
SELECT c.name, c.cost, o.domain, o.quantity
FROM Companies c
RIGHT JOIN Orders o ON c.comp_id = o.comp_id;

-- 4. Union example
SELECT c.name, c.cost, o.domain, o.quantity FROM Companies c JOIN Orders o ON c.comp_id=o.comp_id
UNION
SELECT c.name, c.cost, NULL as domain, 0 as quantity FROM Companies c WHERE c.comp_id NOT IN (SELECT
comp_id FROM Orders);

-- 5. View1
CREATE VIEW View1 AS
SELECT c.name AS company_name, o.quantity
FROM Companies c JOIN Orders o ON c.comp_id = o.comp_id;

-- 6. View2
CREATE VIEW View2 AS SELECT comp_id, name FROM Companies;

-- 7. Display view content
SELECT * FROM View1;
SELECT * FROM View2;
```