

**Mysql-8** Consider following Relation: Companies (comp\_id, name, cost, year) Orders (comp\_id, domain, quantity) Execute the following query:

1. Find names, costs, domains and quantities for companies using inner join.
2. Find names, costs, domains and quantities for companies using left outer join.
3. Find names, costs, domains and quantities for companies using right outer join.
4. Find names, costs, domains and quantities for companies using Union operator.
5. Create View View1 by selecting both tables to show company name and quantities.
6. Create View View2 by selecting any two columns and perform insert update delete operations.
7. Display content of View1, View2.

```
CREATE TABLE Companies (  
    comp_id INT PRIMARY KEY,  
    name VARCHAR(50) NOT NULL,  
    cost DECIMAL(10,2),  
    year INT  
);
```

```
CREATE TABLE Orders (  
    comp_id INT,  
    domain VARCHAR(50),  
    quantity INT,  
    FOREIGN KEY (comp_id) REFERENCES Companies(comp_id)  
        ON DELETE CASCADE ON UPDATE CASCADE  
);
```

```
INSERT INTO Companies VALUES  
(1, 'Infosys', 30000.00, 2021),  
(2, 'TCS', 28000.00, 2022),  
(3, 'TechM', 25000.00, 2023),  
(4, 'Wipro', 27000.00, 2020);
```

```
INSERT INTO Orders VALUES  
(1, 'AI Solutions', 10),  
(2, 'Cloud Services', 15),  
(3, 'Web Hosting', 20);
```

#### Step 7: Test the Queries

##### Query 1 - Inner Join

→ Shows only companies that have matching records in Orders.

```
SELECT c.name, c.cost, o.domain, o.quantity  
FROM Companies c  
INNER JOIN Orders o  
ON c.comp_id = o.comp_id;
```

#### Query 2 - Left Outer Join

→ Shows all companies (even if they have no order).

```
SELECT c.name, c.cost, o.domain, o.quantity
FROM Companies c
LEFT JOIN Orders o
ON c.comp_id = o.comp_id;
```

#### Query 3 - Right Outer Join

→ Shows all orders (even if company doesn't exist).

```
SELECT c.name, c.cost, o.domain, o.quantity
FROM Companies c
RIGHT JOIN Orders o
ON c.comp_id = o.comp_id;
```

#### Query 4 - UNION (Left + Right Join)

→ Combines both Left and Right join results (removes duplicates).

```
SELECT c.name, c.cost, o.domain, o.quantity
FROM Companies c
LEFT JOIN Orders o
ON c.comp_id = o.comp_id
UNION
SELECT c.name, c.cost, o.domain, o.quantity
FROM Companies c
RIGHT JOIN Orders o
ON c.comp_id = o.comp_id;
```

#### Query 5 - Create View1

→ Displays company name and quantity (from both tables).

```
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;
```

```
SELECT * FROM View1;
```

#### Query 6-Create View2

→ Selects two columns from Companies and allows insert/update/delete.

```
CREATE VIEW View2 AS
SELECT comp_id, name FROM Companies;
```

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#### Perform Insert, Update, Delete on View2

☒ Insert:

```
INSERT INTO View2 VALUES (5, 'HCL');
```

☒ Update:

```
UPDATE View2 SET name = 'HCLTech' WHERE comp_id = 5;
```

☒ Delete:

```
DELETE FROM View2 WHERE comp_id = 5;
```

Query 7- Display View Contents

```
SELECT * FROM View1;
```

```
SELECT * FROM View2;
```