#### Task-7

## **Objective:**

Learn how to:

- Create views using the CREATE VIEW statement.
- Use views to simplify complex queries.
- Apply views for abstraction, security, and reusability.

## **Tools:**

- ☑ DB Browser for SQLite
- MySQL Workbench

### **Deliverables:**

- SQL scripts with:
  - O CREATE VIEW statements.
  - o Sample queries that use these views.

### **Hints / Mini Guide:**

#### 1. Create a View with a Complex select:

A **view** is a virtual table representing the result of a query.

```
-- Example: Create a view for high-value orders
CREATE VIEW HighValueOrders AS
SELECT order_id, customer_id, total_amount
FROM Orders
WHERE total amount > 10000;
```

#### 2. Use Views for Abstraction and Security:

- Abstract away complex joins or calculations.
- Allow limited access to sensitive data.

```
-- Secure view with limited employee data
CREATE VIEW PublicEmployees AS
SELECT emp_id, name, department
FROM Employees;
```

### 3. Querying a View:

Treat it like a table:

SELECT \* FROM HighValueOrders WHERE customer\_id = 3;

# **✓** Outcome

You will be able to:

- Define and use views to reuse SQL logic.
- Simplify reporting and analytics.
- Protect data access using controlled views.

We create views by using MYSQL and HR databases. We attached file in the Repository.