## **Views**

Views in SQL are a kind of virtual table. A view also has rows and columns like tables, but a view doesn't store data on the disk like a table. View defines a customized query that retrieves data from one or more tables, and represents the data as if it was coming from a single source.

We can create a view by selecting fields from one or more tables present in the database. A View can either have all the rows of a table or specific rows based on certain conditions.

```
CREATE TABLE departments (
  department id INT PRIMARY KEY,
 department name VARCHAR(50)
);
CREATE TABLE employees (
  employee id INT PRIMARY KEY,
 employee name VARCHAR(50),
 department id INT,
 FOREIGN KEY (department id) REFERENCES departments(department id)
);
INSERT INTO departments (department id, department name) VALUES
(1, 'Engineering'),
(2, 'Marketing'),
(3, 'Finance');
INSERT INTO employees (employee id, employee name, department id) VALUES
(101, 'John Doe', 1),
(102, 'Jane Smith', 1),
(103, 'Michael Johnson', 2),
(104, 'Emily Davis', 2),
(105, 'David Brown', 3);
CREATE VIEW employee department view AS
SELECT e.employee id, e.employee name, d.department name
FROM employees e
JOIN departments d ON e.department id = d.department id;
SELECT * FROM employee department view;
DROP VIEW employee department view;
```