

## SQL Intern Task-7

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### Task 7 : Creating Views

#### 1. What are Views?

- A View is a virtual table based on the result of a SELECT query.
- It does not store data, but behaves like a table when queried.

#### 2. Why Use Views?

- Abstraction : Hides complex queries from users.
- Security : Limits access to specific columns/rows.
- Reusability : Write once, use many times.
- Readability : Makes SQL queries easier to understand

#### Sample table:

#### Employee table :

```
CREATE TABLE employees (  
    emp_id INTEGER PRIMARY KEY,  
    name TEXT,  
    department TEXT,  
    Salary REAL  
);
```

#### Insert sample data :

```
INSERT INTO employees VALUES (1, 'Arun', 'HR', 40000);  
INSERT INTO employees VALUES (2, 'Meena', 'IT', 65000);
```

### 1. View Creation

```
CREATE VIEW it_employees AS  
SELECT emp_id, name, salary  
FROM employees  
WHERE department = 'IT';
```

```
SELECT * FROM it_employees;
```

### 2. View with calculation (Complex SELECT)

```
CREATE VIEW salary_with_bonus AS  
SELECT name, salary, salary * 0.10 AS bonus  
FROM employees;
```

```
SELECT * FROM salary_with_bonus;
```

### 3. View for High Salary Employees

```
CREATE VIEW high_salary_employees AS  
SELECT name, department, salary  
FROM employees  
WHERE salary > 60000;
```

```
SELECT * FROM high_salary_employees;
```

If want to remove a view :

```
DROP VIEW view_name;
```

### Outcomes:

- Understanding how to create and use SQL views.
- Apply views for abstraction and Security.
- Practice real-world database design concepts.