# **Experiment 7**

### FS19CO042

**Title**: Write SQL code for creating of View. Perform Insert ,Modify, Delete records through view, Delete the View. Working with Nested -Query.

#### Theory:

- 1. Simple View
  - → Simple View in SQL is the view created by involving only single table. In other words we can say that there is only one base table in case of Simple View in SQL

Syntax : CREATE VIEW view-name AS
SELECT column-name
FROM table-name
WHERE condition

Example : CREATE VIEW Brazil\_Customers AS

SELECT CustomerName, ContactName
FROM Customers

WHERE Country = 'Brazil';

- 2. Complex view
  - →On other hand, Complex View is created by involving more than one table i.e., multiple tables get projected in Complex view.

Syntax : CREATE VIEW view-name AS

SELECT column-name
FROM table-name
JOIN aggregate-function
GROUP BY column-name

Example : CREATE VIEW dept\_income AS

SELECT d.Name as DepartmentName, sum(e.salary) as

TotalSalary

FROM Employees e

JOIN Departments d on e.DepartmentId = d.id

GROUP BY d.Name

- 3. INSERT query syntax and example.
  - → INSERT command is used to insert data into the row of a table.

Syntax: INSERT INTO TABLE\_NAME (col1, col2, col3,. ...col N)
VALUES (value1, value2, value3,.....valueN);

Example: INSERT INTO fyfs (name, roll) VALUES ("Rupesh", "FS43");

- 4. UPDATE query syntax and example.
  - → UPDATE command is used to update or modify the value of a column in the table.

Syntax : UPDATE table\_name SET [column\_name1=value1] [WHERE CONDITION]

Example : UPDATE students SET User\_Name = "Rupesh" WHERE Student\_Id = '43'

- **5.** DELETE query syntax and example.
  - → DFLFTF is used to remove one or more row from a table.

Syntax: DELETE FROM table\_name [WHERE condition];

Example: DELETE FROM javatpoint WHERE Author="Rupesh";

- 6. DROP VIEW
  - → DROP VIEW command is used to delete the view

Syntax : DROP VIEW view name

**Example: DROP VIEW [Brazil Customers]** 

#### 7. **NESTED OUERY**

→Query written inside a query is called as SQL Nested Query

Syntax: SELECT Column1, Column2... From Table Name

WHERE Column Name Operator(Select Column1,Column From Table\_Name\_2)

Operator (Select Column1,Column2.....From

Table\_Name\_3)

**Example: SELECT Model FROM Product** 

WHERE ManufacturerID IN (SELECT ManufacturerID

**FROM** 

Manufacturer

WHERE Manufacturer = 'Dell')

Outputs:

Initial tables setup:

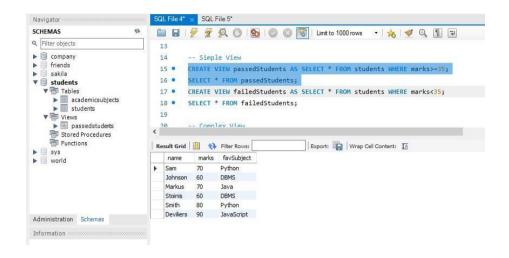
Students table:

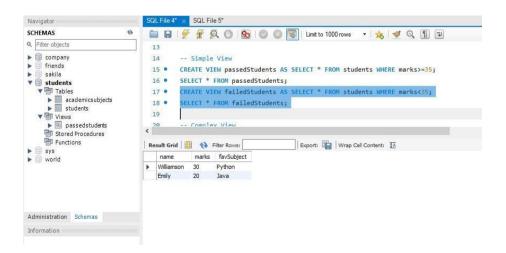
	name	marks	favSubject
•	Sam	70	Python
	Johnson	60	DBMS
	Markus	70	Java
	Stoinis	60	DBMS
	Smith	80	Python
	Williamson	30	Python
	Emily	20	Java
	Deviliers	90	JavaScript

academicSubjects table:

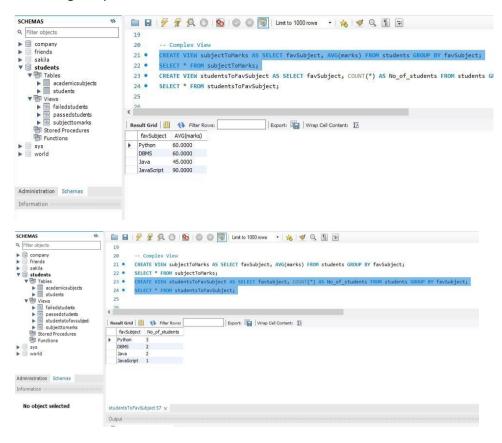
	sub_name	studentRating	teachingSemester
×	DBMS	6.5	3
	Java	7	3
	Javascript	7.9	4
	Python	8.5	3
	NULL	NULL	NULL

#### Creating Simple view:

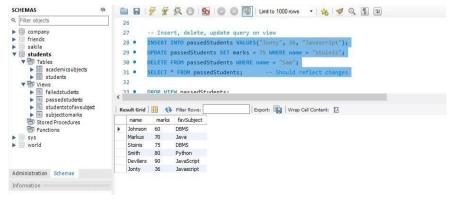




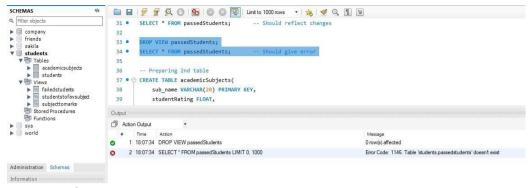
#### Creating complex view:



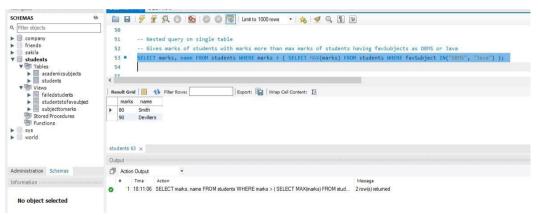
# Insert delete and update on view:



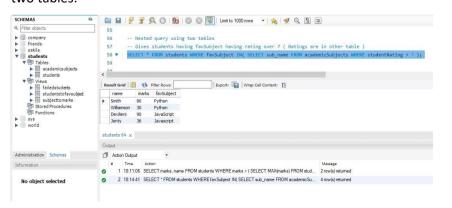
### Drop view:



# Nested query on single table:



# Nested query using two tables:



Conclusion: Thus, we created, modified(Inserted updated deleted) and deleted views