

**Experiment 2.4****Name:** Rohan Jaiswal**UID:** 21BCS2856**Branch:** CSE**Section/Group:** 608 (B)**Semester:** 3<sup>rd</sup>**Date of Performance:** 12<sup>th</sup> Oct**Subject Name:** DBMS**Subject Code:** 21CSH-214**Aim:**

Introduction and implementation of programs using views.

**Objective:**

To learn about views in PL/SQL.

**DBMS script and Output:**

**View:** A database view is a database subset and is based on a query that runs on one or more database tables.

**CREATING TABLE AND INSERTING ROWS**

```
CREATE TABLE Studinfo(  
    Sid number(10),  
    Sname varchar2(20),  
    sub1 number(5),  
    sub2 number(5),  
    sub3 number(5),  
    Total number(6)  
);
```

INSERT into Studinfo values  
(1,'Abhishek',50,54,49,153);

INSERT into Studinfo values  
(2,'Rohan',20,34,29,83);

INSERT into Studinfo values  
(3,'Himanshu',13,12,25,50);

INSERT into Studinfo values  
(4,'Aditya Ruhela',1,5,7,13);

INSERT into Studinfo values  
(5,'Aditya Barnwal',32,45,49,126);

INSERT into Studinfo values  
(6,'Sameer',0,1,2,3);

INSERT into Studinfo values  
(7,'Harsh',12,13,45,70);

INSERT into Studinfo values  
(8,'Aarush',32,45,49,126);

INSERT into Studinfo values  
(9,'Vivek',5,2,36,43);

INSERT into Studinfo values  
(10,'Mike',2,90,23,115);

Output:

SID	SNAME	SUB1	SUB2	SUB3	TOTAL
1	Abhishek	50	54	49	153
2	Rohan	20	34	29	83
3	Himanshu	13	12	25	50
4	Aditya Ruhela	1	5	7	13
5	Aditya Barnwal	32	45	49	126
6	Sameer	0	1	2	3
7	Harsh	12	13	45	70
8	Aarush	32	45	49	126
9	Vivek	5	2	36	43
10	Mike	2	90	23	115

- Create View

Syntax:

Create view <view name> as

Select Col1, Col2, Col3 from <table name>

Code:

```
CREATE VIEW Studview AS
SELECT Sid, Sname, Total
FROM Studinfo
WHERE Total>60;
```

- Displaying view

Code:

```
select * FROM Studview;
```

Output:

SID	SNAME	TOTAL
1	Abhishek	153
2	Rohan	83
5	Aditya Barnwal	126
7	Harsh	70
8	Aarush	126
10	Mike	115

- Inserting into View

Code:

```
INSERT INTO Studview values  
(11, 'Ross', 80);
```

Output:

SID	SNAME	TOTAL
1	Abhishek	153
2	Rohan	83
5	Aditya Barnwal	126
7	Harsh	70
8	Aarush	126
10	Mike	115
11	Ross	80

- Updating View

Code:

```
UPDATE Studview  
SET Sname='Rohit'  
WHERE Sname='Mike';
```

Output:

SID	SNAME	TOTAL
1	Abhishek	153
2	Rohan	83
5	Aditya Barnwal	126
7	Harsh	70
8	Aarush	126
10	Rohit	115
11	Ross	80

- Deleting a row from View

Code:

```
DELETE FROM Studview  
WHERE Sid=11;
```

Output:

SID	SNAME	TOTAL
1	Abhishek	153
2	Rohan	83
5	Aditya Barnwal	126
7	Harsh	70
8	Aarush	126
10	Rohit	115