

# SHEET NO - 03

Name : Raksha Pahariya

Roll No : 2021CSB029

Subject : DBMS Lab

## Assignment No: 7

### 1. Create a view of all students in dept CSE.

query:

```
CREATE VIEW CSE_students AS
SELECT
    *
FROM
    students
WHERE deptcode =
    'CST';
```

Result Grid							
		Filter Rows:		Export:		Wrap Cell Content:	
	rollno	name	bdate	deptcode	hostel	parent_inc	age
▶	1	Abhiroop	2002-09-25	CST	8	16000.0	21
	4	Rahul	2001-08-26	CST	9	20000.0	22
	92005010	Sanjana	2000-08-26	CST	9	21000.0	23

### 2. Create a view named as cse\_stud for 'CSE' deptstudents

**having attributes rollno, name, hostel**

**query:**

```
CREATE VIEW cse_stud AS
SELECT
    rollno,
    name,
    hostel
FROM
    students
WHERE deptcode =
    'CST';
```

Result Grid			
Filter Rows:			
	rollno	name	hostel
▶	1	Abhiroop	8
	4	Rahul	9
	92005010	Sanjana	9

**3. Insert a new student of CSE. Analyse the result.**



**query:**

```
INSERT
INTO
cse_stud
VALUES
    ('51052987', 'Rashmi', '8');
```

```

37 • SELECT * from cst_stud;
38

```







Result Grid   Filter Rows:

	rollno	name	hostel
▶	1	Abhiroop	8
	4	Rahul	9
	92005010	Sanjana	9

```

39 • SELECT * FROM students
40     WHERE rollno = 51052987;
41

```

Result Grid   Filter Rows:  Edit:    Export/Import: 

	rollno	name	bdate	deptcode	hostel	parent_inc	age
▶	51052987	Rashi	NULL	NULL	8	NULL	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

### Analysis:

Inserting the new record didn't reflect in the virtual table but did show up in the base table. As we can see the record in the base table doesn't have any deptcode.

Hence the query used for the View doesn't apply here.

## 4. Increment parental income by Rs. 5000 (HRA).

query:

UPDATE

```
cst_students
SET parent_inc = parent_inc +
5000;
```

Result Grid    Filter Rows: <input type="text"/>   Export:    Wrap Cell Content:							
	rollno	name	bdate	deptcode	hostel	parent_inc	age
▶	1	Abhiroop	2002-09-25	CST	8	21000.0	21
	4	Rahul	2001-08-26	CST	9	25000.0	22
	92005010	Sanjana	2000-08-26	CST	9	26000.0	23

## 5. Delete the view.

query:

```
DROP VIEW cst_stud;
```

```
SELECT * from cst_stud;
```

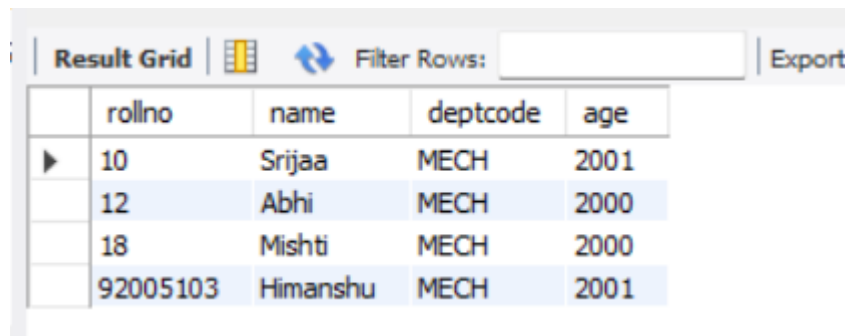
✓	18	23:36:11	DROP VIEW cst_stud	0 row(s) affected	0.000 sec
✗	19	23:36:48	SELECT * from cst_stud LIMIT 0, 1000	Error Code: 1146. Table 'dbms.cst_stud' doesn't exist	0.000 sec

**6. Create another view of all students in dept Mechanical Engineering (department Name). The view will contain attributes namely Roll-No, Name, Department Name, Age**

**query:**

```
CREATE VIEW mec_stud AS
SELECT
    rollno,
    name,
    deptcode,
    YEAR(bdate) AS age
FROM
    students
WHERE
    deptcode = 'MECH';

SELECT * from mec_stud;
```



The screenshot shows a database interface with a 'Result Grid' tab. It displays the results of a query on the 'mec\_stud' view. The grid has five columns: 'rollno', 'name', 'deptcode', and 'age'. There are four rows of data. The first row is highlighted with a mouse cursor. Above the grid, there are icons for 'Filter Rows' and 'Export'.

	rollno	name	deptcode	age
▶	10	Srijaa	MECH	2001
	12	Abhi	MECH	2000
	18	Mishti	MECH	2000
	92005103	Himanshu	MECH	2001

## 7. Insert a new student of Mechanical Engineering Department.

**query:**

```
INSERT INTO students VALUES
(15, 'Krishna', '2000-12-01', 'MECH', 9, 20000.0, 22);
```

Result Grid				
Filter Rows:				
	rollno	name	deptcode	age
▶	10	Srijaa	MECH	2001
	12	Abhi	MECH	2000
	15	Krishna	MECH	2000
	18	Mishti	MECH	2000
	92005103	Himanshu	MECH	2001

**Analysis:** When we perform the INSERT on the base table it get's reflected in the view as well.

## 8. Delete a student (for a given Name) of the same department

**query:**

```
DELETE FROM
    students
WHERE name =
    'Krishnendu';
```

```

86 • SELECT * from mec_stud;
87

```

rollno	name	deptcode	age
10	Srijaa	MECH	2001
12	Abhi	MECH	2000
18	Mishti	MECH	2000
92005103	Himanshu	MECH	2001

**Analysis:** When we perform the DELETE on the base table it get's reflected in the view as well.

## 9. Shift a student (for a given Name) from Mechanical to Computer Science.

**query:**

```

UPDATE
  mec_stud
SET deptcode =
  'CSE'
WHERE name =
  'Mishti';

```

Result Grid				
		Filter Rows:		
		Export:		
	rollno	name	deptcode	age
▶	10	Srijaa	MECH	2001
	12	Abhi	MECH	2000
	92005103	Himanshu	MECH	2001

99 • SELECT \* from students

100 where deptcode = "CST";

101

Result Grid

Filter Rows:

Edit:

Export/Import:

	rollno	name	bdate	deptcode	hostel	parent_inc	age
▶	1	Abhiroop	2002-09-25	CST	8	26000.0	21
	4	Rahul	2001-08-26	CST	9	30000.0	22
	18	Mishti	2000-12-01	CST	9	20000.0	22
	92005010	Sanjana	2000-08-26	CST	9	31000.0	23
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL

**Analysis:** After performing the update command the mec\_stud get's updated and view cse\_students also reflect the change.Changes are also reflected in the base table.