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SUBJECT: DBMS LAB

### ASSIGNMENT - 6

Create a view on the STUDENT table named V\_STD selecting all the columns. Run the following queries on the view.

1. Display all data from the view.

Ans create view V\_STD as select \* from STUDENT;  
select \* from V\_STD;

```
mysql> create view V_STD as select * from STUDENT;
Query OK, 0 rows affected (0.29 sec)

mysql> select * from V_STD;
```

RegNo	RollNo	Name	Address	PhoneNo	YearofAdm	DeptCode	Year	BirthDate
12315	123015	Kamal	Kashba	24424987	2003	IT	3	1981-09-19
12424	124024	Ipsita	Kaikhali	25739608	2004	CSE	2	1982-08-15
12344	123044	Biplab	Howrah	NULL	2003	IT	3	1982-01-03
12357	123057	Samik	Barasat	25426742	2003	IT	3	1981-07-15
12419	124019	Srija	Garia	24755655	2004	EE	2	1982-10-25
12427	124027	Saibal	Garia	24753306	2004	ECE	2	1983-03-22
012301	123001	Ashish	Jadavpur	24761892	2003	CSE	3	1981-06-01
012301	123001	Ashish	Jadavpur	24761892	2003	CSE	3	1981-06-01
12363	123011	Bishakh	Sector V	23371987	2005	IT	2	1982-05-01
5353	0	Kami		NULL	0	CSE	2	0000-00-00

```
10 rows in set (0.14 sec)
```

2. Insert a new row into the view with the following data –

012363 123011 Bishakh Salt Lake 23371987 2005 IT 2 01-May-82

Ans: insert into V\_STD values (012363, 123011, 'Bishakh', 'Salt Lake', 23371987,2005,'IT', 2, '1982-05-01');

```
mysql> insert into V_STD values (012363, 123011, 'Bishakh', 'Salt Lake', 23371987,
-> 2005,'IT', 2, '1982-05-01');
Query OK, 1 row affected (0.36 sec)

mysql> select * from V_STD;
```

RegNo	RollNo	Name	Address	PhoneNo	YearofAdm	DeptCode	Year	BirthDate
12315	123015	Kamal	Kashba	24424987	2003	IT	3	1981-09-19
12424	124024	Ipsita	Kaikhali	25739608	2004	CSE	2	1982-08-15
12344	123044	Biplab	Howrah	NULL	2003	IT	3	1982-01-03
12357	123057	Samik	Barasat	25426742	2003	IT	3	1981-07-15
12419	124019	Srija	Garia	24755655	2004	EE	2	1982-10-25
12427	124027	Saibal	Garia	24753306	2004	ECE	2	1983-03-22
012301	123001	Ashish	Jadavpur	24761892	2003	CSE	3	1981-06-01
012301	123001	Ashish	Jadavpur	24761892	2003	CSE	3	1981-06-01
12363	123011	Bishakh	Sector V	23371987	2005	IT	2	1982-05-01
5353	0	Kami		NULL	0	CSE	2	0000-00-00
12363	123011	Bishakh	Salt Lake	23371987	2005	IT	2	1982-05-01

```
11 rows in set (0.00 sec)
```

3. Display data from student table to verify that the row has been inserted into the table.

Ans: select \* from V\_STD where Name = 'Bishakh';

```
mysql> select * from V_STD where Name = 'Bishakh';
```

RegNo	RollNo	Name	Address	PhoneNo	YearofAdm	DeptCode	Year	BirthDate
12363	123011	Bishakh	Sector V	23371987	2005	IT	2	1982-05-01
12363	123011	Bishakh	Salt Lake	23371987	2005	IT	2	1982-05-01

```
2 rows in set (0.00 sec)
```

4. Update the address of Bishakh to "SectorV" & verify the change in the table.

Ans: update V\_STD set Address = 'Sector V' where RegNo = '12363';  
select \* from V\_STD where RegNo = '12363';

```
mysql> update V_STD set Address = 'Sector V' where RegNo = '12363';
Query OK, 1 row affected (0.14 sec)
Rows matched: 2  Changed: 1  Warnings: 0

mysql> select * from V_STD where RegNo = '12363';
```

RegNo	RollNo	Name	Address	PhoneNo	YearofAdm	DeptCode	Year	BirthDate
12363	123011	Bishakh	Sector V	23371987	2005	IT	2	1982-05-01
12363	123011	Bishakh	Sector V	23371987	2005	IT	2	1982-05-01

```
2 rows in set (0.00 sec)
```

1. Create a view on student tables named V\_STD\_2 selecting the columns – RegNo, Name, Year, Deptcode.  
5. Display data from the view.

Ans: create view V\_STD\_2 as select RegNo,Name,Year,DeptCode from STUDENT;  
select \* from V\_STD\_2;

```
mysql> create view V_STD_2 as select RegNo,Name,Year,DeptCode from STUDENT;
Query OK, 0 rows affected (0.24 sec)

mysql> select * from V_STD_2;
```

RegNo	Name	Year	DeptCode
12315	Kamal	3	IT
12424	Ipsita	2	CSE
12344	Biplab	3	IT
12357	Samik	3	IT
12419	Srija	2	EE
12427	Saibal	2	ECE
012301	Ashish	3	CSE
012301	Ashish	3	CSE
12363	Bishakh	2	IT
5353	Kami	2	CSE
12363	Bishakh	2	IT

```
11 rows in set (0.01 sec)
```

6. Try to insert data into table through view.

Ans: insert into V\_STD\_2 values (5419, 'Kamisato', 2, 'CSE');

```
mysql> insert into V_STD_2 values (5419, 'Kamisato', 2, 'CSE');
Query OK, 1 row affected, 4 warnings (0.46 sec)

mysql> select * from V_STD_2;
+-----+-----+-----+-----+
| RegNo | Name   | Year | DeptCode |
+-----+-----+-----+-----+
| 12315 | Kamal  | 3    | IT       |
| 12424 | Ipsita | 2    | CSE      |
| 12344 | Biplab | 3    | IT       |
| 12357 | Samik  | 3    | IT       |
| 12419 | Srija  | 2    | EE       |
| 12427 | Saibal | 2    | ECE      |
| 012301 | Ashish | 3    | CSE      |
| 012301 | Ashish | 3    | CSE      |
| 12363 | Bishakh | 2    | IT       |
| 12363 | Bishakh | 2    | IT       |
| 5419  | Kamisato | 2    | CSE      |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

7. Update the Deptcode of 'Kamal' to 'IT' through view.

Ans: update V\_STD\_2 set DeptCode = 'CSE' where Name = 'Kamal';

```
mysql> update V_STD_2 set DeptCode = 'CSE' where Name = 'Kamal';
Query OK, 1 row affected (0.65 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from V_STD_2;
+-----+-----+-----+-----+
| RegNo | Name   | Year | DeptCode |
+-----+-----+-----+-----+
| 12315 | Kamal  | 3    | CSE      |
| 12424 | Ipsita | 2    | CSE      |
| 12344 | Biplab | 3    | IT       |
| 12357 | Samik  | 3    | IT       |
| 12419 | Srija  | 2    | EE       |
| 12427 | Saibal | 2    | ECE      |
| 012301 | Ashish | 3    | CSE      |
| 012301 | Ashish | 3    | CSE      |
| 12363 | Bishakh | 2    | IT       |
| 12363 | Bishakh | 2    | IT       |
| 5419  | Kamisato | 2    | CSE      |
+-----+-----+-----+-----+
11 rows in set (0.01 sec)
```



8. Delete records of students of 4<sup>th</sup> year through view.

Ans: delete from V\_STD\_2 where Year = 4;

```
mysql> delete from V_STD_2 where Year = 4;
Query OK, 0 rows affected (0.00 sec)

mysql> select * from V_STD_2;
```

RegNo	Name	Year	DeptCode
12315	Kamal	3	IT
12424	Ipsita	2	CSE
12344	Biplab	3	IT
12357	Samik	3	IT
12419	Srija	2	EE
12427	Saibal	2	ECE
012301	Ashish	3	CSE
012301	Ashish	3	CSE
12363	Bishakh	2	IT
12363	Bishakh	2	IT
5419	Kamisato	2	CSE

```
11 rows in set (0.00 sec)
```

III. Create a view named V\_FACULTY consisting of columns FacultyName, DeptCode from FACULTY table and HOD from Department table.

1. Display data from V\_FACULTY

Ans: create view V\_FACULTY as select FACULTY.FacultyName, FACULTY.DeptCode, DEPARTMENT.HOD from FACULTY join DEPARTMENT on FACULTY.DeptCode = DEPARTMENT.DeptCode;

select \* from V\_FACULTY;

```
mysql> select * from V_FACULTY;
```

FacultyName	DeptCode	HOD
K.Das	CSE	F101
M.Sinha	IT	F201
P.sarkar	CSE	F101
S.Mazumder	IT	F201
S.Mondal	CSE	F101
D.Majumdar	IT	F201
N.Biswas	ECE	F506
R.Paul	EE	F901
S.Sarkar	IT	F201
K.Das	IT	F201
R.Roy	EE	F901
R.Biswas	ECE	F506

```
12 rows in set (0.06 sec)
```

9. Try to insert a new row into this view V\_FACULTY.

Ans: insert into V\_FACULTY(FacultyName,DeptCode) values ('B.Bas','CSE');

```
mysql> insert into V_FACULTY(FacultyName,DeptCode) values ('B.Bas','CSE');
Query OK, 1 row affected, 2 warnings (0.41 sec)

mysql> select * from V_FACULTY;
+-----+-----+-----+
| FacultyName | DeptCode | HOD |
+-----+-----+-----+
| B.Bas       | CSE      | F101 |
| P.sarkar    | CSE      | F101 |
| S.Mondal    | CSE      | F101 |
| M.Sinha     | IT        | F201 |
| S.Mazumder  | IT        | F201 |
| D.Majumdar  | IT        | F201 |
| S.Sarkar    | IT        | F201 |
| K.Das       | IT        | F201 |
| N.Biswas    | ECE       | F506 |
| R.Biswas    | ECE       | F506 |
| R.Paul      | EE        | F901 |
| R.Roy       | EE        | F901 |
+-----+-----+-----+
12 rows in set (0.00 sec)
```

10. Try to update the DeptCode of a CSE faculty to IT.

Ans: update V\_FACULTY set DeptCode = 'IT' where FacultyName = 'B.Bas';

```
mysql> update V_FACULTY set DeptCode = 'IT' where FacultyName = 'B.Bas';
Query OK, 1 row affected (0.10 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from V_FACULTY;
+-----+-----+-----+
| FacultyName | DeptCode | HOD |
+-----+-----+-----+
| P.sarkar    | CSE      | F101 |
| S.Mondal    | CSE      | F101 |
| B.Bas       | IT        | F201 |
| M.Sinha     | IT        | F201 |
| S.Mazumder  | IT        | F201 |
| D.Majumdar  | IT        | F201 |
| S.Sarkar    | IT        | F201 |
| K.Das       | IT        | F201 |
| N.Biswas    | ECE       | F506 |
| R.Biswas    | ECE       | F506 |
| R.Paul      | EE        | F901 |
| R.Roy       | EE        | F901 |
+-----+-----+-----+
12 rows in set (0.00 sec)
```