
SQL –View

Syntax of Create a view:

```
CREATE VIEW view_name AS  
SELECT column1, column2.....  
FROM table_name  
WHERE [condition];
```

Examples

CREATE VIEW:

```
CREATE VIEW studentvw AS  
SELECT `Roll_No`,`F_Name`,`Semester`,`Gender`  
FROM stud_member;
```

```
SELECT * FROM `studentvw`;
```

Roll_No	F_Name	Semester	Gender
0	a	b	
1	Ankur	1	M
2	Dhaval	1	M
10	Komal	3	F
13	abc	3	M
14	Vikash	3	M

Inserting Record:

```
INSERT INTO `studentvw`(`Roll_No`, `F_Name`, `Semester`, `Gender`) VALUES  
('15','xyz','2','F') ;
```

Roll_No	F_Name	Semester	Gender
0	a	b	
1	Ankur	1	M
2	Dhaval	1	M
10	Komal	3	F
13	abc	3	M
14	Vikash	3	M
15	xyz	2	F

Deleting Rows:

```
DELETE FROM `studentvw` WHERE `Roll_No`='0';
```

Roll_No	F_Name	Semester	Gender
1	Ankur	1	M
2	Dhaval	1	M
10	Komal	3	F
13	abc	3	M
14	Vikash	3	M
15	xyz	2	F

Create a view, using the JOINS query:

Table: stud_member

Roll_No	F_Name	M_Name	S_Name	Dept_ID	Semester	Contact_No	Gender
1	Ankur	Samir	Kahar	1	1	272121	M
2	Dhaval	Dhiren	Joshi	1	1	232122	M
10	Komal	Maheskumar	Pandey	2	3	123123	F
13	Amit	Jitenkumar	Mehta	3	3	453667	M

Table: department

Dept_ID	Dept_Name
4	Mechanical
1	Information Technology
2	Electrical
3	Civil
5	Chemical

Simple Join Operation:

```
SELECT stud_member.F_Name, stud_member.M_Name,  
stud_member.S_Name, department.Dept_Name FROM department INNER  
JOIN stud_member ON department.Dept_ID= stud_member.Dept_ID;
```

<u>Name</u>	M_Name	S_Name	Dept_Name
Ankur	Samir	Kahar	Information Technology
Dhaval	Dhiren	Joshi	Information Technology
Komal	Maheskumar	Pandey	Electrical
Amit	Jitenkumar	Mehta	Civil

View on Join

```
CREATE VIEW StudentDept_View AS
SELECT stud_member.F_Name, stud_member.M_Name,
stud_member.S_Name, department.Dept_Name FROM department INNER
JOIN stud_member ON department.Dept_ID= stud_member.Dept_ID;
```

F_Name	M_Name	S_Name	Dept_Name
Ankur	Samir	Kahar	Information Technology
Dhaval	Dhiren	Joshi	Information Technology
Komal	Maheskumar	Pandey	Electrical
Amit	Jitenkumar	Mehta	Civil

Select data from the view:

```
SELECT `F_Name`,`Dept_Name` FROM `studentdept_view`;
```

F_Name	Dept_Name
Ankur	Information Technology
Dhaval	Information Technology
Komal	Electrical
Amit	Civil

After inserting new record in stud_member Query on studentdept_view:

SELECT `F\_Name`,`Dept\_Name` FROM `studentdept\_view`;

F_Name	Dept_Name
Ankur	Information Technology
Dhaval	Information Technology
Komal	Electrical
Amit	Civil
Vikash	Chemical

UPDATE Query:

UPDATE `studentdept\_view` SET `F\_Name`='abc'WHERE Dept_Name='Civil';

F_Name	M_Name	S_Name	Dept_Name
Ankur	Samir	Kahar	Information Technology
Dhaval	Dhiren	Joshi	Information Technology
Komal	Mareshkumar	Pandey	Electrical
abc	Jitenkumar	Mehta	Civil
Vikash	Kumar	Singh	Chemical

DROP VIEW `student\_view` ;// student_view table deleted