

TE IT

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Consider Student table containing information of **Student(Exam_no,Name,Sub1,Sub2,Sub3,Percentage)** marks of minimum 10 students. **Create view on Student table** and Try to update the base table(Student) using its corresponding view. Also consider restrictions on updatable views and perform view creation from multiple tables.

```
mysql> CREATE TABLE Student_info(
-> Exam_no varchar(15),
-> Name varchar(15),
-> Sub1 int,
-> Sub2 int,
-> Sub3 int,
-> Percentage DECIMAL(4,2)
-> );
Query OK, 0 rows affected (0.43 sec)

mysql> INSERT INTO Student_info VALUES("T1500801", "AJAY", 56, 40, 71, 55.67), ("T1500802", "SACHIN", 48, 70, 56, 58.00),
-> ("T1500803", "ATUL", 63, 71, 48, 60.67), ("T1500814", "ANIL", 67, 56, 63, 62.00), ("T1500815", "RAHUL", 64, 40, 67, 57.00),
-> ("T1500809", "RAJ", 56, 70, 40, 55.33), ("T1500855", "AKASH", 48, 71, 70, 63.00), ("T1500879", "PARAG", 70, 56, 71, 65.67),
-> ("T1500899", "SATISH", 71, 48, 56, 58.33), ("T1500829", "RAHUL", 81, 65, 75, 73.67);
Query OK, 10 rows affected (0.20 sec)
Records: 10 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Student_info;
```

Exam_no	Name	Sub1	Sub2	Sub3	Percentage
T1500801	AJAY	56	40	71	55.67
T1500802	SACHIN	48	70	56	58.00
T1500803	ATUL	63	71	48	60.67
T1500814	ANIL	67	56	63	62.00
T1500815	RAHUL	64	40	67	57.00
T1500809	RAJ	56	70	40	55.33
T1500855	AKASH	48	71	70	63.00
T1500879	PARAG	70	56	71	65.67
T1500899	SATISH	71	48	56	58.33
T1500829	RAHUL	81	65	75	73.67

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

```
mysql> CREATE VIEW Student_view AS SELECT * FROM Student_info;
Query OK, 0 rows affected (0.52 sec)

mysql> SELECT * FROM Student_view;
```

Exam_no	Name	Sub1	Sub2	Sub3	Percentage
T1500801	AJAY	56	40	71	55.67
T1500802	SACHIN	48	70	56	58.00
T1500803	ATUL	63	71	48	60.67
T1500814	ANIL	67	56	63	62.00
T1500815	RAHUL	64	40	67	57.00
T1500809	RAJ	56	70	40	55.33
T1500855	AKASH	48	71	70	63.00
T1500879	PARAG	70	56	71	65.67
T1500899	SATISH	71	48	56	58.33
T1500829	RAHUL	81	65	75	73.67

```
10 rows in set (0.15 sec)

mysql> UPDATE Student_info SET name='YATISH' WHERE name='RAHUL';
Query OK, 2 rows affected (0.15 sec)
Rows matched: 2 Changed: 2 Warnings: 0

mysql> SELECT * FROM Student_view;
```

Exam_no	Name	Sub1	Sub2	Sub3	Percentage
T1500801	AJAY	56	40	71	55.67
T1500802	SACHIN	48	70	56	58.00
T1500803	ATUL	63	71	48	60.67
T1500814	ANIL	67	56	63	62.00
T1500815	YATISH	64	40	67	57.00
T1500809	RAJ	56	70	40	55.33
T1500855	AKASH	48	71	70	63.00
T1500879	PARAG	70	56	71	65.67
T1500899	SATISH	71	48	56	58.33
T1500829	YATISH	81	65	75	73.67

```
10 rows in set (0.00 sec)

mysql> DELETE FROM Student_view WHERE Exam_no='T1500815';
Query OK, 1 row affected (0.11 sec)
```

```
MySQL 8.0 Command Line Client - Unicode
mysql> SELECT * FROM Student_view;

+----+-----+-----+-----+-----+-----+
| Exam_no | Name | Sub1 | Sub2 | Sub3 | Percentage |
+----+-----+-----+-----+-----+-----+
| T1500801 | AJAY | 56 | 40 | 71 | 55.67 |
| T1500802 | SACHIN | 48 | 70 | 56 | 58.00 |
| T1500803 | ATUL | 63 | 71 | 48 | 60.67 |
| T1500814 | ANIL | 67 | 56 | 63 | 62.00 |
| T1500809 | RAJ | 56 | 70 | 40 | 55.33 |
| T1500855 | AKASH | 48 | 71 | 70 | 63.00 |
| T1500879 | PARAG | 70 | 56 | 71 | 65.67 |
| T1500899 | SATISH | 71 | 48 | 56 | 58.33 |
| T1500829 | YATISH | 81 | 65 | 75 | 73.67 |
+----+-----+-----+-----+-----+-----+
9 rows in set (0.04 sec)

mysql> SELECT * FROM Student_info;

+----+-----+-----+-----+-----+-----+
| Exam_no | Name | Sub1 | Sub2 | Sub3 | Percentage |
+----+-----+-----+-----+-----+-----+
| T1500801 | AJAY | 56 | 40 | 71 | 55.67 |
| T1500802 | SACHIN | 48 | 70 | 56 | 58.00 |
| T1500803 | ATUL | 63 | 71 | 48 | 60.67 |
| T1500814 | ANIL | 67 | 56 | 63 | 62.00 |
| T1500809 | RAJ | 56 | 70 | 40 | 55.33 |
| T1500855 | AKASH | 48 | 71 | 70 | 63.00 |
| T1500879 | PARAG | 70 | 56 | 71 | 65.67 |
| T1500899 | SATISH | 71 | 48 | 56 | 58.33 |
| T1500829 | YATISH | 81 | 65 | 75 | 73.67 |
+----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)

mysql> DELETE FROM Student_info WHERE name='YATISH';
Query OK, 1 row affected (0.08 sec)

mysql> SELECT * FROM Student_view;

+----+-----+-----+-----+-----+-----+
| Exam_no | Name | Sub1 | Sub2 | Sub3 | Percentage |
+----+-----+-----+-----+-----+-----+
| T1500801 | AJAY | 56 | 40 | 71 | 55.67 |
| T1500802 | SACHIN | 48 | 70 | 56 | 58.00 |
| T1500803 | ATUL | 63 | 71 | 48 | 60.67 |
| T1500814 | ANIL | 67 | 56 | 63 | 62.00 |
| T1500809 | RAJ | 56 | 70 | 40 | 55.33 |
| T1500855 | AKASH | 48 | 71 | 70 | 63.00 |
| T1500879 | PARAG | 70 | 56 | 71 | 65.67 |
| T1500899 | SATISH | 71 | 48 | 56 | 58.33 |
+----+-----+-----+-----+-----+-----+
8 rows in set (0.09 sec)
```

```
MySQL 8.0 Command Line Client - Unicode

mysql> UPDATE Student_view SET name='MAITREYA' WHERE name='PARAG';
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT * FROM Student_view;

+----+-----+-----+-----+-----+-----+
| Exam_no | Name | Sub1 | Sub2 | Sub3 | Percentage |
+----+-----+-----+-----+-----+-----+
| T1500801 | AJAY | 56 | 40 | 71 | 55.67 |
| T1500802 | SACHIN | 48 | 70 | 56 | 58.00 |
| T1500803 | ATUL | 63 | 71 | 48 | 60.67 |
| T1500814 | ANIL | 67 | 56 | 63 | 62.00 |
| T1500809 | RAJ | 56 | 70 | 40 | 55.33 |
| T1500855 | AKASH | 48 | 71 | 70 | 63.00 |
| T1500879 | MAITREYA | 70 | 56 | 71 | 65.67 |
| T1500899 | SATISH | 71 | 48 | 56 | 58.33 |
+----+-----+-----+-----+-----+-----+
8 rows in set (0.05 sec)

mysql> SELECT * FROM Student_info;

+----+-----+-----+-----+-----+-----+
| Exam_no | Name | Sub1 | Sub2 | Sub3 | Percentage |
+----+-----+-----+-----+-----+-----+
| T1500801 | AJAY | 56 | 40 | 71 | 55.67 |
| T1500802 | SACHIN | 48 | 70 | 56 | 58.00 |
| T1500803 | ATUL | 63 | 71 | 48 | 60.67 |
| T1500814 | ANIL | 67 | 56 | 63 | 62.00 |
| T1500809 | RAJ | 56 | 70 | 40 | 55.33 |
| T1500855 | AKASH | 48 | 71 | 70 | 63.00 |
| T1500879 | MAITREYA | 70 | 56 | 71 | 65.67 |
| T1500899 | SATISH | 71 | 48 | 56 | 58.33 |
+----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```