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### SL1 ASSIGNMENT 11

Problem Statement : Write DDL statements to create VIEWS on single and multiple tables from above DB.

Do the following operation to demonstrate the use of view:

- Update the base table
- Insert new record in the base table.
- Delete record in the base table.
- DML on VIEW.

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### Creating View

```
mysql> create view view_marks as select roll_no, marks from student_marks;  
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from student_marks;
```

roll_no	name	marks
1	prajakta	920
2	rishita	830
3	roma	1200

3 rows in set (0.00 sec)

```
mysql> select * from view_marks;
```

roll_no	marks
1	920
2	830
3	1200

3 rows in set (0.00 sec)

### Update Base Table

```
mysql> update student_marks set marks = 1100 where roll_no = 3;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select * from view_marks;
```

roll_no	marks
1	920
2	830

```
|      3 | 1100 |
+-----+-----+
3 rows in set (0.00 sec)
```

### Inserting new record in base table

```
mysql> insert into student_marks values(4, 'shipra', 1000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from student_marks;
```

```
+-----+-----+-----+
| roll_no | name    | marks |
+-----+-----+-----+
|      1 | prajakta |    920 |
|      2 | rishita  |    830 |
|      3 | roma     |   1200 |
|      4 | shipra   |   1000 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> select * from view_marks;
```

```
+-----+-----+
| roll_no | marks |
+-----+-----+
|      1 |    920 |
|      2 |    830 |
|      3 |   1200 |
|      4 |   1000 |
+-----+-----+
4 rows in set (0.01 sec)
```

### Deleting record from base table

```
mysql> delete from student_marks where roll_no = 4;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from student_marks;
```

```
+-----+-----+-----+
| roll_no | name    | marks |
+-----+-----+-----+
|      1 | prajakta |    920 |
|      2 | rishita  |    830 |
|      3 | roma     |   1200 |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from view_marks;
```

```
+-----+-----+
| roll_no | marks |
+-----+-----+
|      1 |    920 |
|      2 |    830 |
|      3 |   1200 |
+-----+-----+
3 rows in set (0.00 sec)
```

## DML on view

```
mysql> insert into view_marks values(4, 700);  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from student_marks;
```

roll_no	name	marks
1	prajakta	920
2	rishita	830
3	roma	1200
4	NULL	700

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

```
mysql> select * from view_marks;
```

roll_no	marks
1	920
2	830
3	1200
4	700

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