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Enrl : 2020CSB092

### Task - 1

1.

```
mysql> CREATE VIEW T1 AS  
-> SELECT * FROM students  
-> WHERE deptcode = (SELECT deptcode FROM depts WHERE deptname="CSE");  
Query OK, 0 rows affected (0.00 sec)
```

2.

```
mysql> CREATE VIEW cse_stud AS  
-> SELECT rollno,name,hostel FROM students  
-> WHERE deptcode = (SELECT deptcode FROM depts WHERE deptname = "CSE");  
Query OK, 0 rows affected (0.00 sec)
```

3.

```
mysql> INSERT INTO T1 VALUES(1005,"Abhash","1996-08-11",101,4,6000);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM T1;  
+-----+-----+-----+-----+-----+-----+  
| rollno | name      | bdate      | deptcode | hostel | parent_inc |  
+-----+-----+-----+-----+-----+-----+  
| 1001   | Mayank    | 1996-01-01 | 101      | 7      | 10000.0    |  
| 1002   | Raushan   | 1996-07-05 | 101      | 3      | 7000.0     |  
| 1003   | Kaustubh  | 1996-09-15 | 101      | 1      | 17000.0    |  
| 1004   | Anurag    | 1996-01-21 | 101      | 3      | 20000.0    |  
| 1005   | Abhash    | 1996-08-11 | 101      | 4      | 6000.0     |  
+-----+-----+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

4.

```
mysql> UPDATE T1
      -> SET parent_inc = parent_inc+5000;
Query OK, 5 rows affected (0.00 sec)
Rows matched: 5  Changed: 5  Warnings: 0
```

```
mysql> SELECT * FROM T1;
```

rollno	name	bdate	deptcode	hostel	parent_inc
1001	Mayank	1996-01-01	101	7	15000.0
1002	Raushan	1996-07-05	101	3	12000.0
1003	Kaustubh	1996-09-15	101	1	22000.0
1004	Anurag	1996-01-21	101	3	25000.0
1005	Abhash	1996-08-11	101	4	11000.0

5 rows in set (0.00 sec)

5.

```
mysql> DROP VIEW T1;
Query OK, 0 rows affected (0.00 sec)
```

## Task - 2

1.

```
mysql> CREATE VIEW T2 AS
-> SELECT rollno AS "Roll-No",name AS Name , deptname AS "Department Name" , TIMESTAMPDIFF(YEAR,bdate,SYSDATE()) AS Age
-> FROM students,depts WHERE students.deptcode = depts.deptcode AND depts.deptname="MECH";
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM T2;
+-----+-----+-----+-----+
| Roll-No | Name   | Department Name | Age |
+-----+-----+-----+-----+
| 3001    | Satyam | MECH            | 26  |
| 3002    | Kayam  | MECH            | 26  |
| 3003    | Raju   | MECH            | 26  |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Attempt the following :-

2.

```
mysql> INSERT INTO students VALUES(3004,"Vikram","1994-07-09","201",6,4000);
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM T2;
+-----+-----+-----+-----+
| Roll-No | Name   | Department Name | Age |
+-----+-----+-----+-----+
| 3001    | Satyam | MECH            | 26  |
| 3002    | Kayam  | MECH            | 26  |
| 3003    | Raju   | MECH            | 26  |
| 3004    | Vikram | MECH            | 28  |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

3.

```
mysql> DELETE FROM students WHERE rollno=3004;
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM T2;
+-----+-----+-----+-----+
| Roll-No | Name   | Department Name | Age |
+-----+-----+-----+-----+
| 3001    | Satyam | MECH            | 26  |
| 3002    | Kayam  | MECH            | 26  |
| 3003    | Raju   | MECH            | 26  |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

4.

```
mysql> UPDATE students
      -> SET deptcode="101"
      -> WHERE rollno=3003;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> SELECT * FROM T2;
```

Roll-No	Name	Department Name	Age
3001	Satyam	MECH	26
3002	Kayam	MECH	26

2 rows in set (0.00 sec)