

Assignment Sheet 3

Name – Sayak Sen

Enrollment No – 2023CSB047

1.Create a view named as cse_stud for ‘CSE’ dept students having attributes rollno, name,hostel.

```
create view cse_stud as select rollno, name, hostel from students  
where deptcode = 'CSE';
```

rollno	name	hostel
92005010	Aarav	1
92005011	Rohan	1
92005016	Ananya	4
92005019	Neha	5
92005022	Ankit	2
92005023	Megha	2
92005025	Samvit	5
92005027	Raghav	5
92005029	Aarav	5
92005102	Ram	5
92005104	Kanha	2

2. Insert a new student of CSE. Analyse the result.

```
insert into cse_stud values(92005120, 'Amit Kumar', 3);
```

The view does not show the new data, but the original database has it with values as NULL not present in view

3. Increment parental income by Rs. 5000 (HRA).

```
update students set parent_inc = parent_inc + 5000;
select *from cse_stud;
```

rollno	name	hostel
92005010	Aarav	1
92005011	Rohan	1
92005016	Ananya	4
92005019	Neha	5
92005022	Ankit	2
92005023	Megha	2
92005025	Samvit	5
92005027	Raghav	5
92005029	Aarav	5
92005102	Ram	5
92005104	Kanha	2

4. Delete the view.

```
drop view cse_stud;
```

5. Create another view of all students in dept Mechanical Engineering (department Name).The view will contain attributes namely Roll-No, Name, Department Name, Age.

```
create view mech_stud as
select rollno,name,deptcode,year(curdate())-year(bdate) as age
from students
where deptcode = 'MEC';
```

rollno	name	deptcode	age
92005015	Manoj	MEC	29
92005018	Vikram	MEC	29

6. Insert a new student of Mechanical Engineering Department.

```
insert into students values(92005121,'Ravi Shankar','1995-05-12','MEC',2,15000);
select *from mech_stud;
```

rollno	name	deptcode	age
92005015	Manoj	MEC	29
92005018	Vikram	MEC	29
92005121	Ravi Shankar	MEC	30

Both original database and view project the changes.

7. Delete a student (for a given Name) of the same department.

```
delete from students where name = 'Ravi Shankar';
select *from mech_stud;
```

rollno	name	deptcode	age
92005015	Manoj	MEC	29
92005018	Vikram	MEC	29

8. Shift a student (for a given Name) from Mechanical to Computer Science.

```
update students set deptcode = 'CSE' where name = 'Manoj';
```

rollno	name	deptcode	age
92005018	Vikram	MEC	29