

# 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);
```

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

92005029	Aarav	1993-09-14	CSE	5	14000.0
92005102	Ram	1995-05-15	CSE	5	50000.0
92005103	Amit	1995-05-15	ELE	1	50000.0
92005104	Kanha	1996-01-01	CSE	2	65000.0
92005105	Sipra	1993-05-15	ELE	1	75000.0
92005120	Amit K...	NULL	NULL	3	NULL
NULL	NULL	NULL	NULL	NULL	NULL

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