Assignment -3

Name –Raj kumar

Branch – B.tech(computer science & engineering)
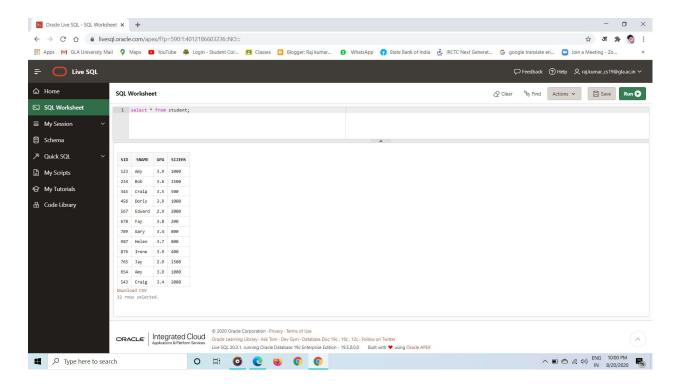
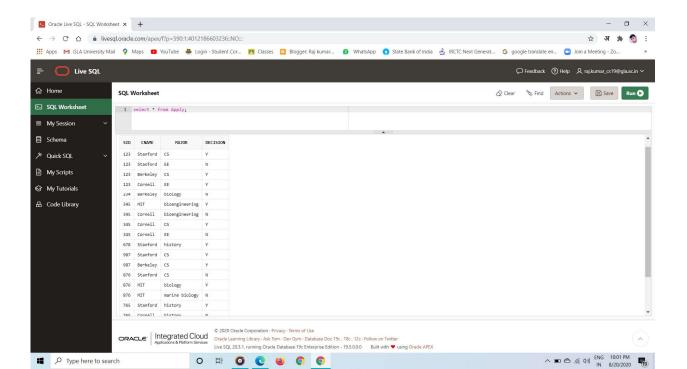Uni Roll no -191500623

Sec-I

Sec Roll no -30

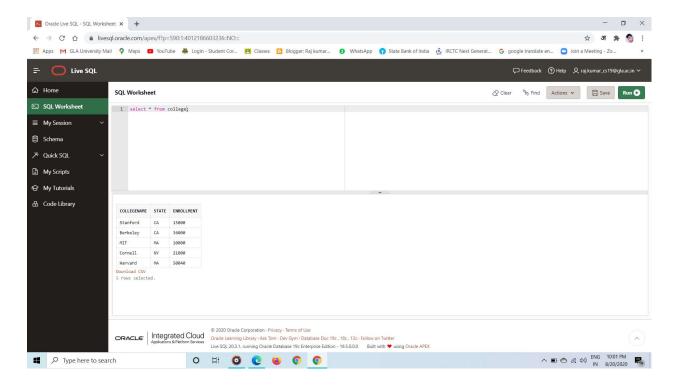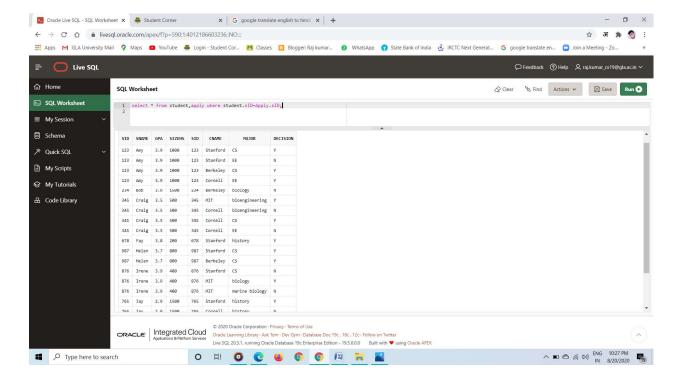Sub – DBMS Lab(Assignment-3)

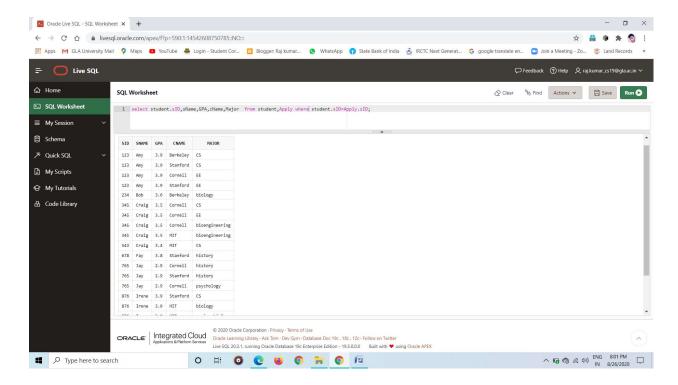## STUDENT TABLE

APPLY TABLE

COLLEGE TABLE

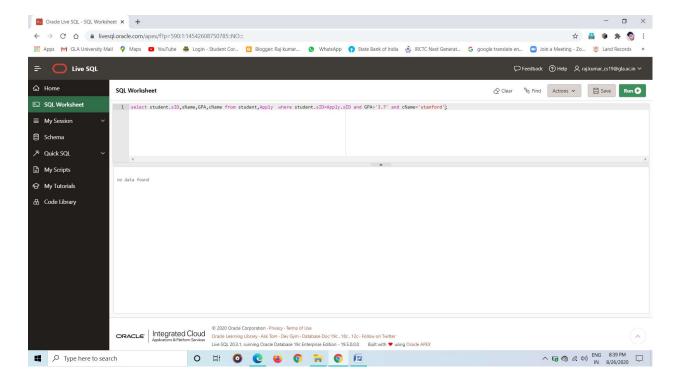**Q1. Produce a combine table in which each student is combine with every other application.**

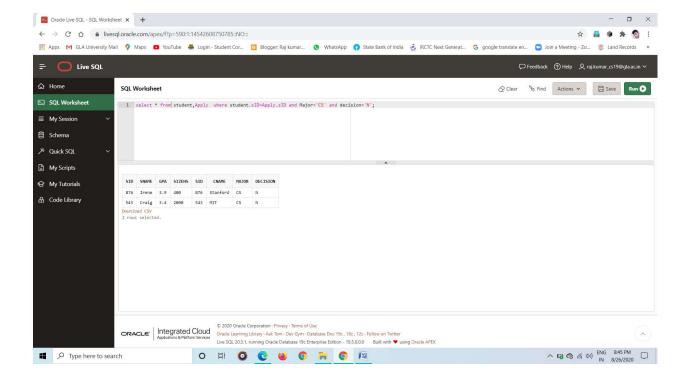**Q2. Give Student ID, name, GPA and name of college and major each student applied to.**

Q3. Find detail of applications who applied to California State.
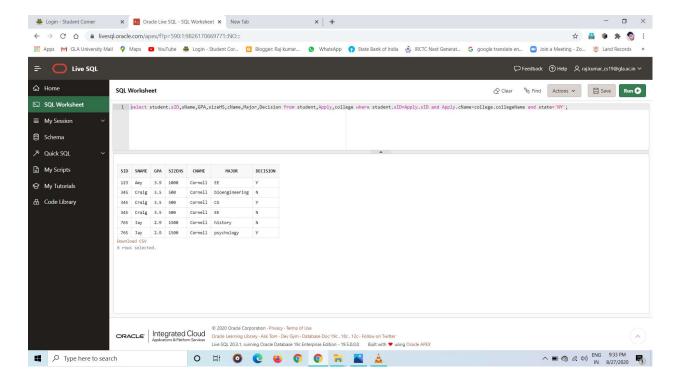
Q4. IDs, name, GPA of students and name of college with GPA > 3.7 applying to Stanford .
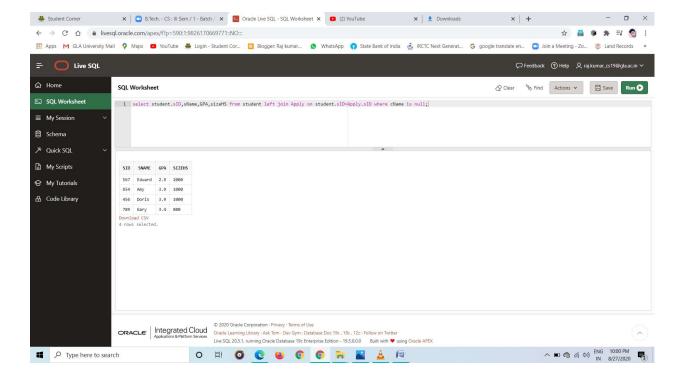

Q5. Find detail of Student who apply to CS major and their application are rejected.
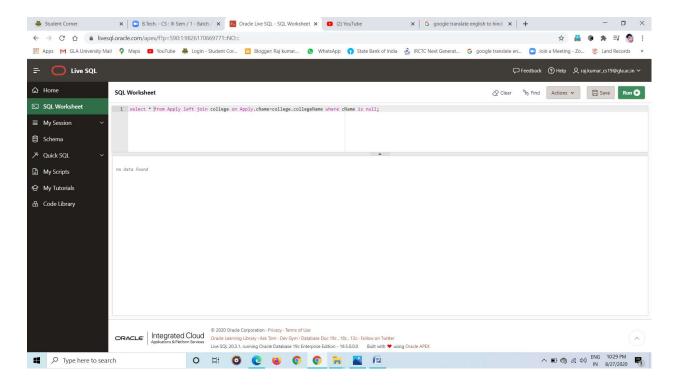
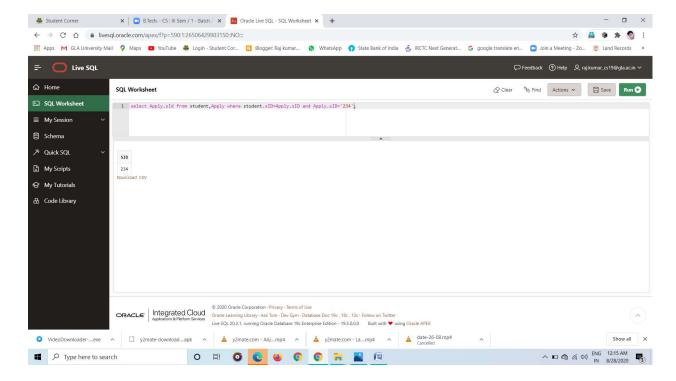**Q6. Find detail of student and application who applied to colleges at New York.**

SQL Worksheet

```
1  select student.sID,sName,GPA,sizeHS,cName,Major,Decision from student,Apply,college where student.sID=Apply.sID and Apply.cName=college.collegeName and state='NY';
```

SID	SNAME	GPA	SIZEHS	CNAME	MAJOR	DECISION
123	Amy	3.9	1000	Cornell	EE	Y
345	Craig	3.5	500	Cornell	bioengineering	N
345	Craig	3.5	500	Cornell	CS	Y
345	Craig	3.5	500	Cornell	EE	N
765	Jay	2.9	1500	Cornell	history	N
765	Jay	2.9	1500	Cornell	psychology	Y

Download CSV
6 rows selected.

Q7. Find detail of student who have not applied to any of college.

SQL Worksheet

```
1  select student.sID,sName,GPA,sizeHS from student left join Apply on student.sID=Apply.sID where cName is null;
```

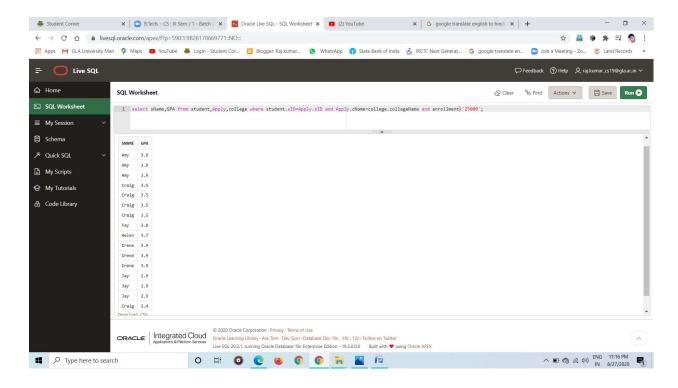| SID	SNAME	GPA	SIZEHS
567	Edward	2.9	2000
654	Amy	3.9	1000
456	Doris	3.9	1000
789	Gary	3.4	800

Download CSV
4 rows selected.

Q8. Find college where no student have applied.

Q9. Find sID who have only one application.

Q10. Find name and GPA of applicants who apply to any college whose enrollment is not more than 25000.

Q11. Find pair of students (sID) having same GPA. (each pair should occur just once in result).