ADBMS Assignment 1

Name: **Prashant Sahu**

Section: **C**

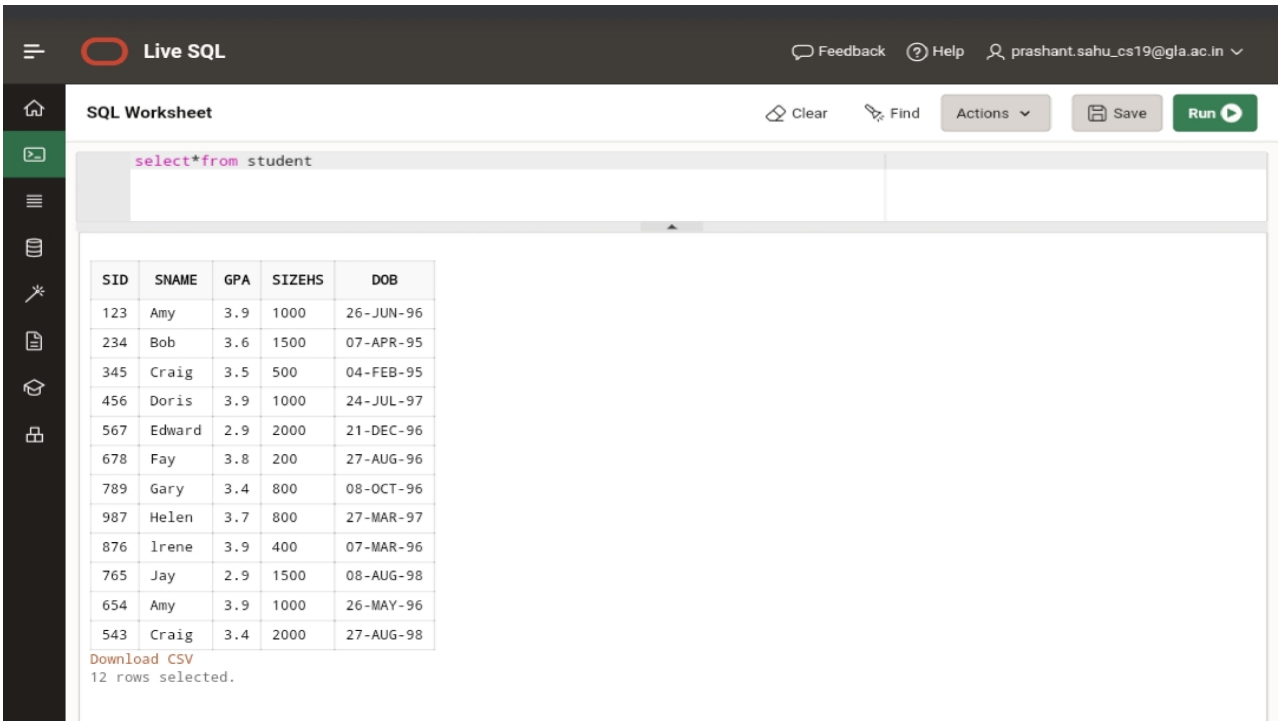
Year :**2nd**

Univ Id: **191500581**

Roll No.: **23**

Exercise-1

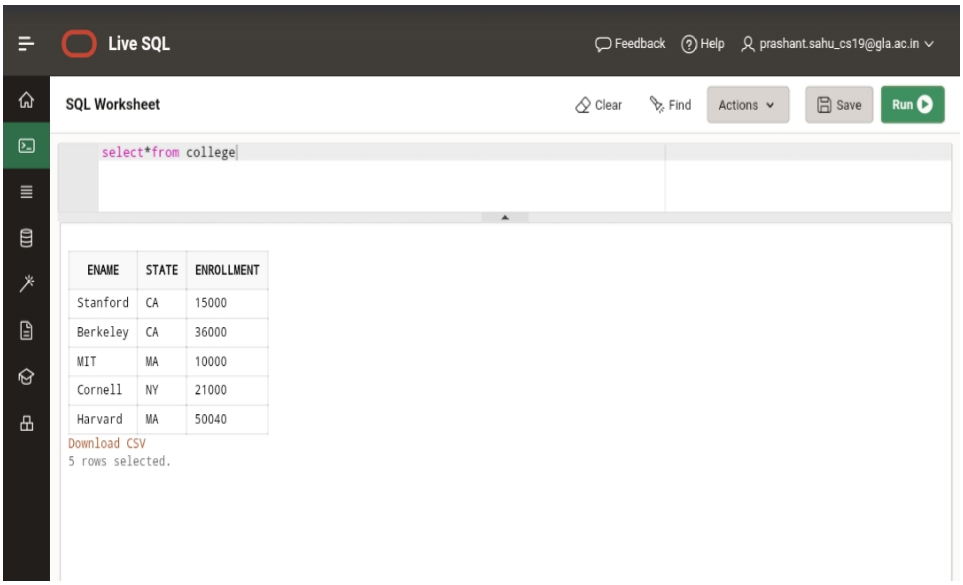
Student



SID	SNAME	GPA	SIZEHS	DOB
123	Amy	3.9	1000	26-JUN-96
234	Bob	3.6	1500	07-APR-95
345	Craig	3.5	500	04-FEB-95
456	Doris	3.9	1000	24-JUL-97
567	Edward	2.9	2000	21-DEC-96
678	Fay	3.8	200	27-AUG-96
789	Gary	3.4	800	08-OCT-96
987	Helen	3.7	800	27-MAR-97
876	Irene	3.9	400	07-MAR-96
765	Jay	2.9	1500	08-AUG-98
654	Amy	3.9	1000	26-MAY-96
543	Craig	3.4	2000	27-AUG-98

Download CSV
12 rows selected.

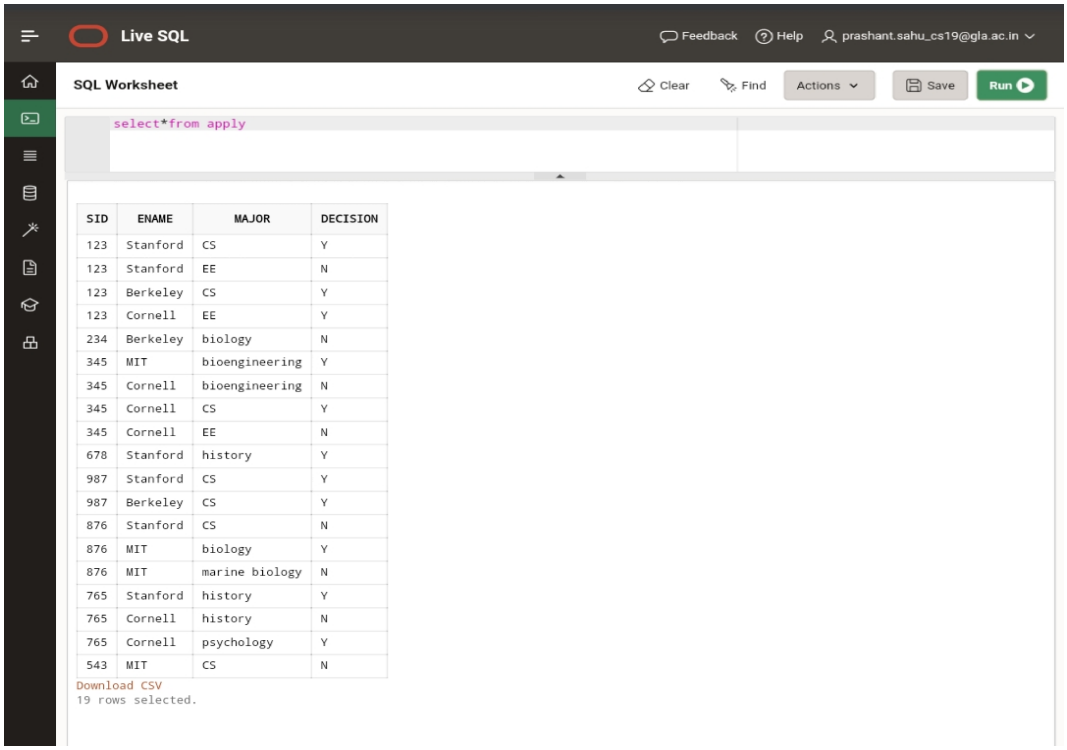
College



ENAME	STATE	ENROLLMENT
Stanford	CA	15000
Berkeley	CA	36000
MIT	MA	10000
Cornell	NY	21000
Harvard	MA	50040

Download CSV
5 rows selected.

Apply

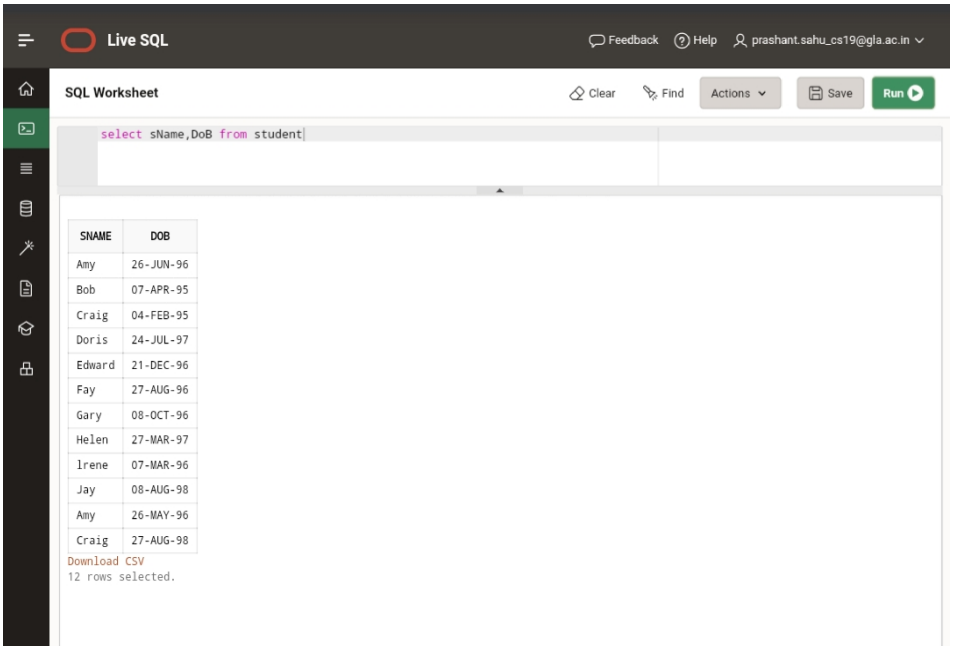


SID	ENAME	MAJOR	DECISION
123	Stanford	CS	Y
123	Stanford	EE	N
123	Berkeley	CS	Y
123	Cornell	EE	Y
234	Berkeley	biology	N
345	MIT	bioengineering	Y
345	Cornell	bioengineering	N
345	Cornell	CS	Y
345	Cornell	EE	N
678	Stanford	history	Y
987	Stanford	CS	Y
987	Berkeley	CS	Y
876	Stanford	CS	N
876	MIT	biology	Y
876	MIT	marine biology	N
765	Stanford	history	Y
765	Cornell	history	N
765	Cornell	psychology	Y
543	MIT	CS	N

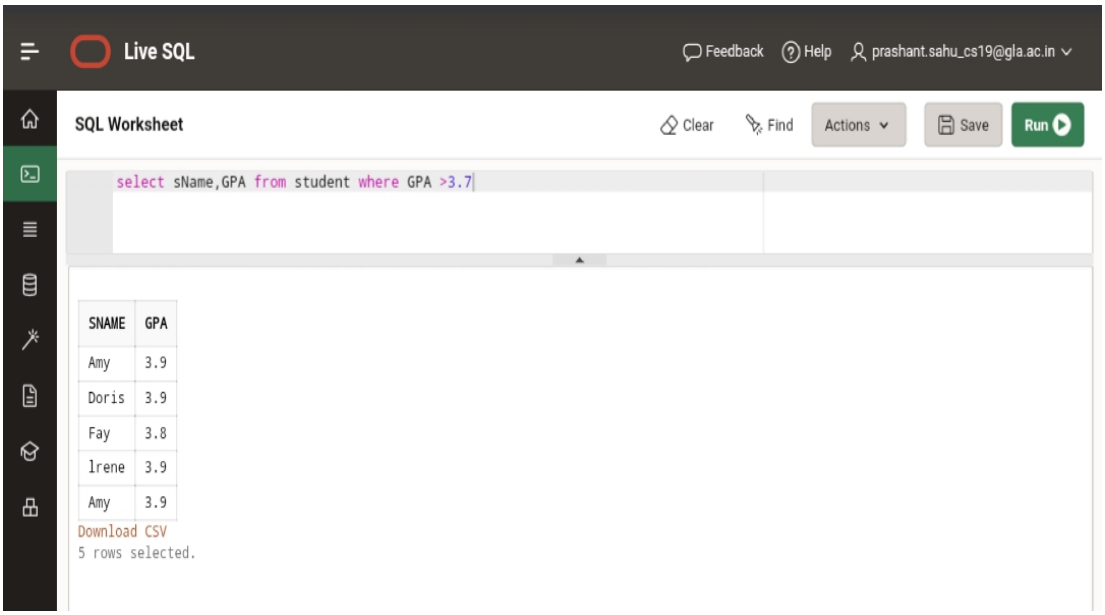
Download CSV
19 rows selected.

Queries

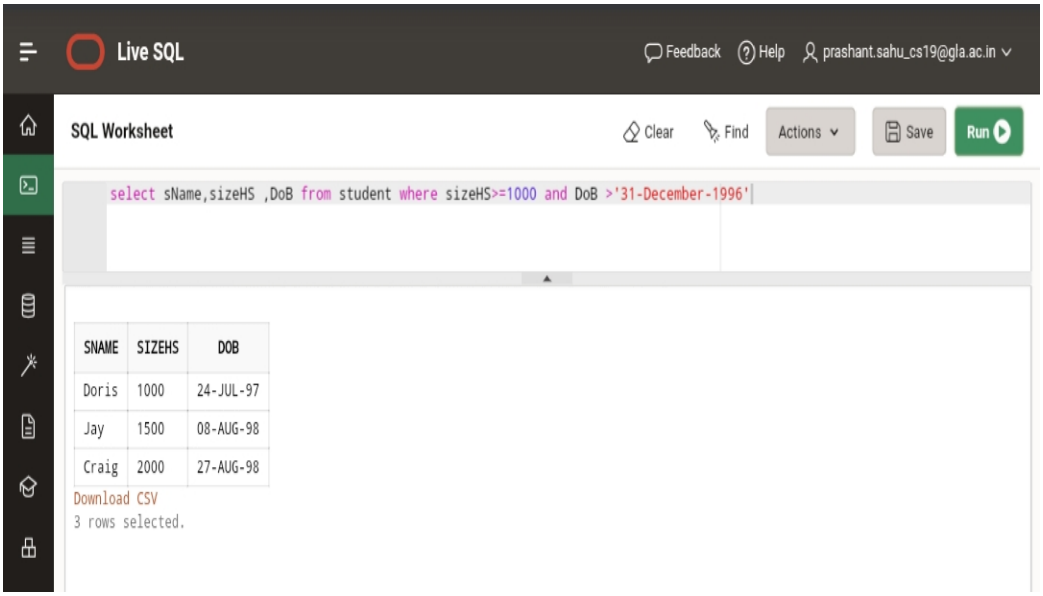
1. List the student name, dob from student table:



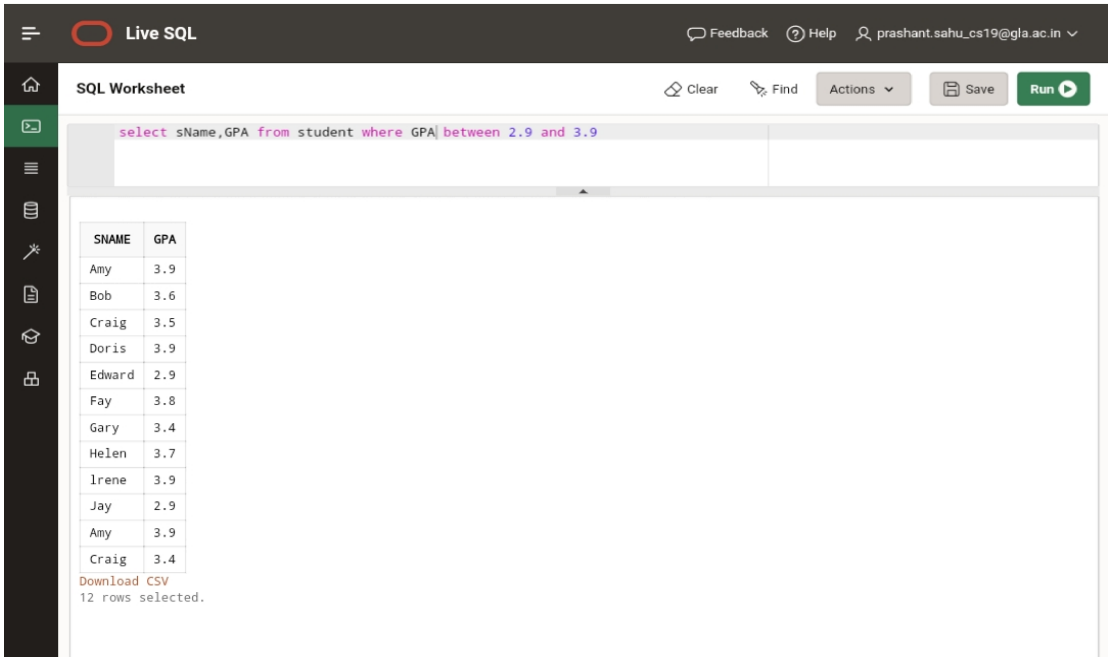
2. List the name of student scoring more than 3.7 in GPA.



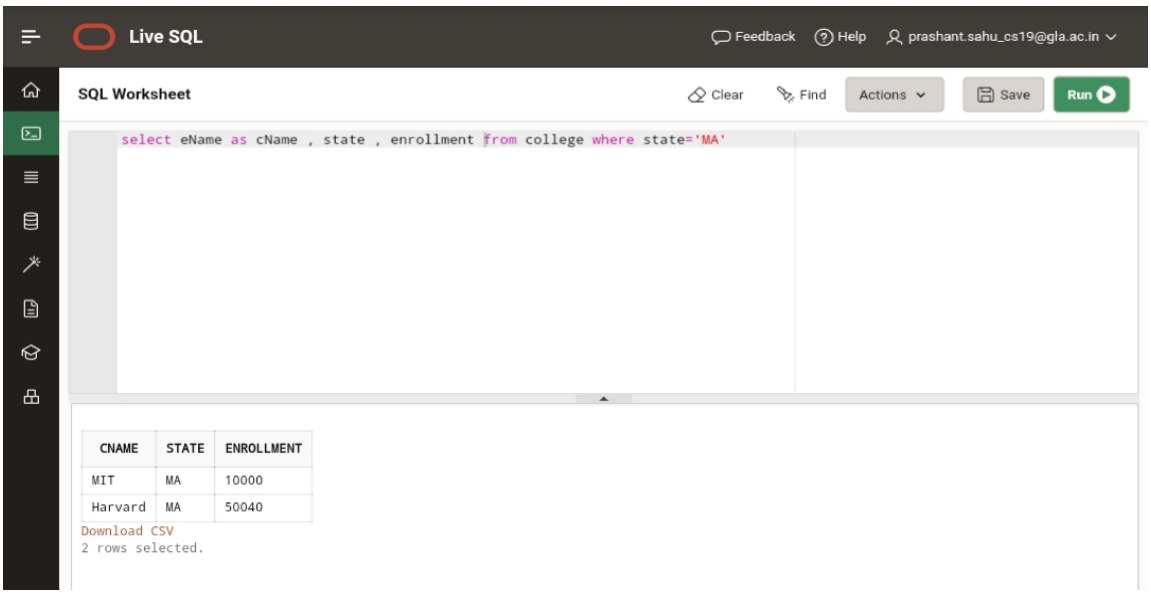
3. List the name of student whose High School size is atleast 1000 and born after 1996 :



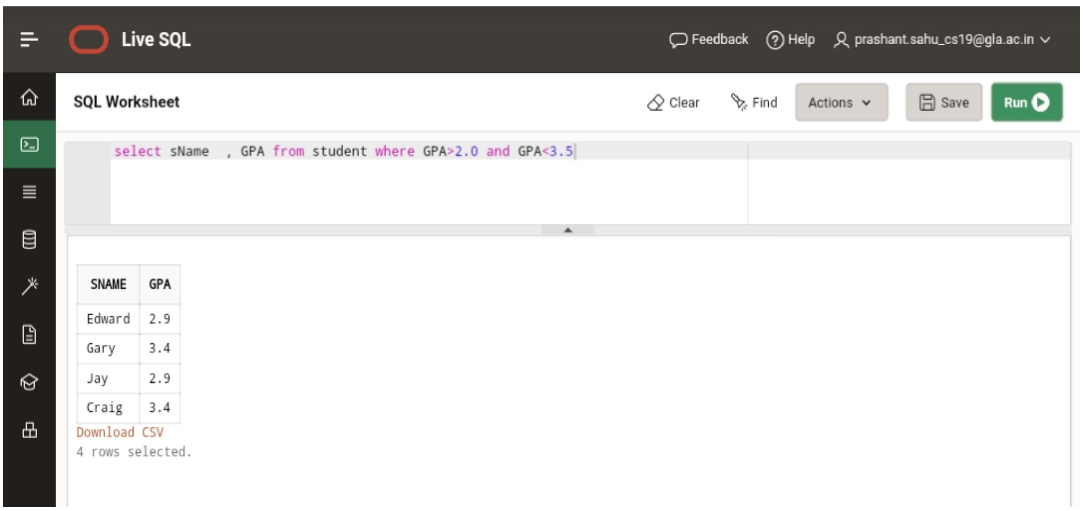
4. List the name of student who are scoring GPA in between 2.9 and 3.9:



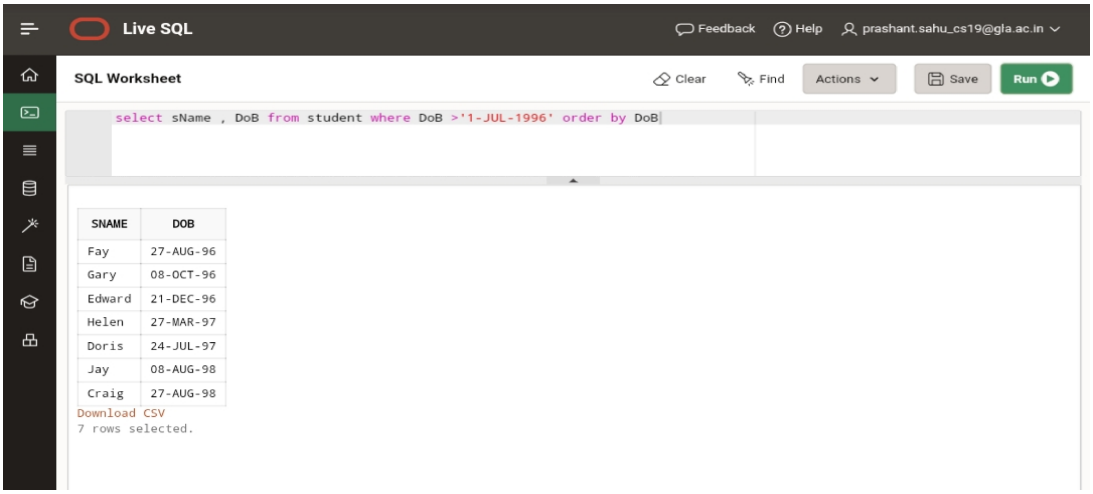
5. List all the details of colleges who situated in MA:



6. List the students who are scored more than 2.0 but less than 3.5.



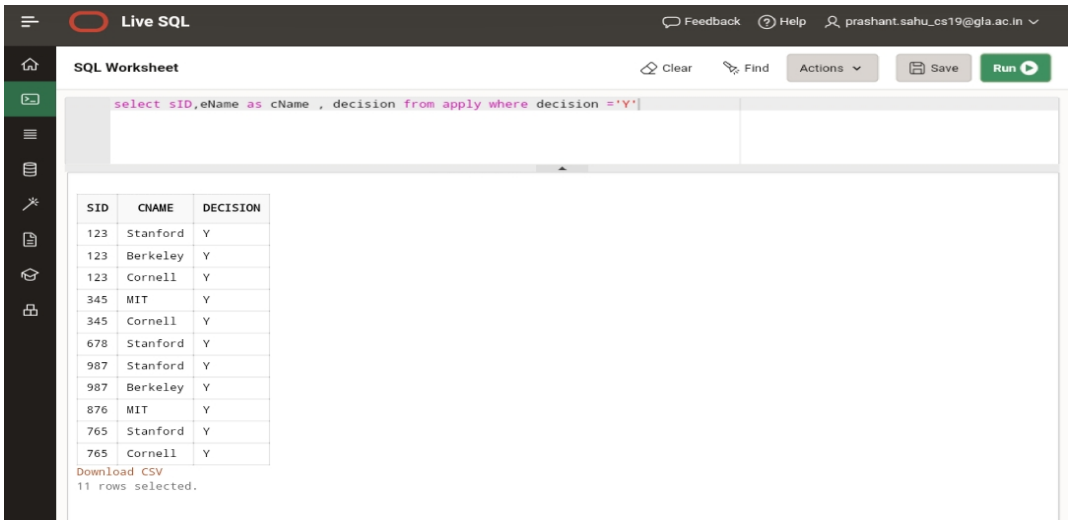
7. List the students who have born after 1st Jul 96 in the order of the Date of Birth.



SNAME	DOB
Fay	27-AUG-96
Gary	08-OCT-96
Edward	21-DEC-96
Helen	27-MAR-97
Doris	24-JUL-97
Jay	08-AUG-98
Craig	27-AUG-98

Download CSV
7 rows selected.

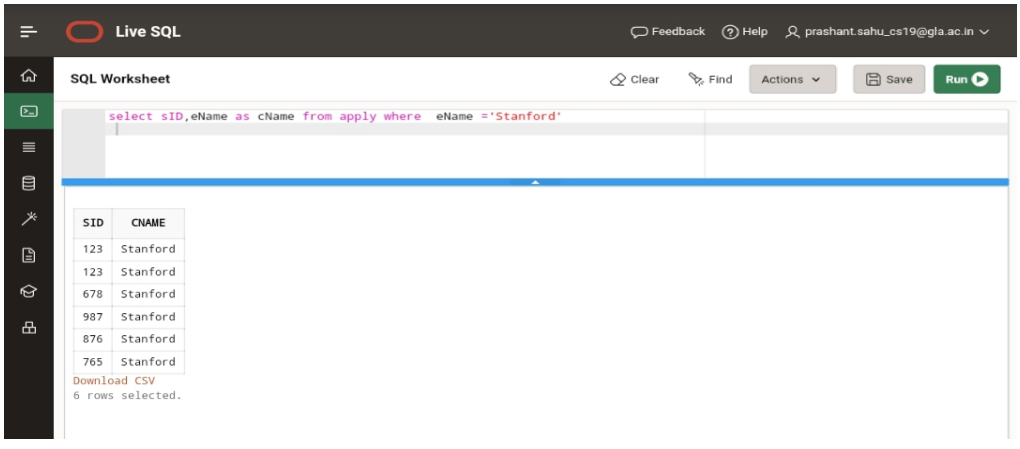
8. List the sID, cName, decision of applications that are accepted.



SID	CNAME	DECISION
123	Stanford	Y
123	Berkeley	Y
123	Cornell	Y
345	MIT	Y
345	Cornell	Y
678	Stanford	Y
987	Stanford	Y
987	Berkeley	Y
876	MIT	Y
765	Stanford	Y
765	Cornell	Y

Download CSV
11 rows selected.

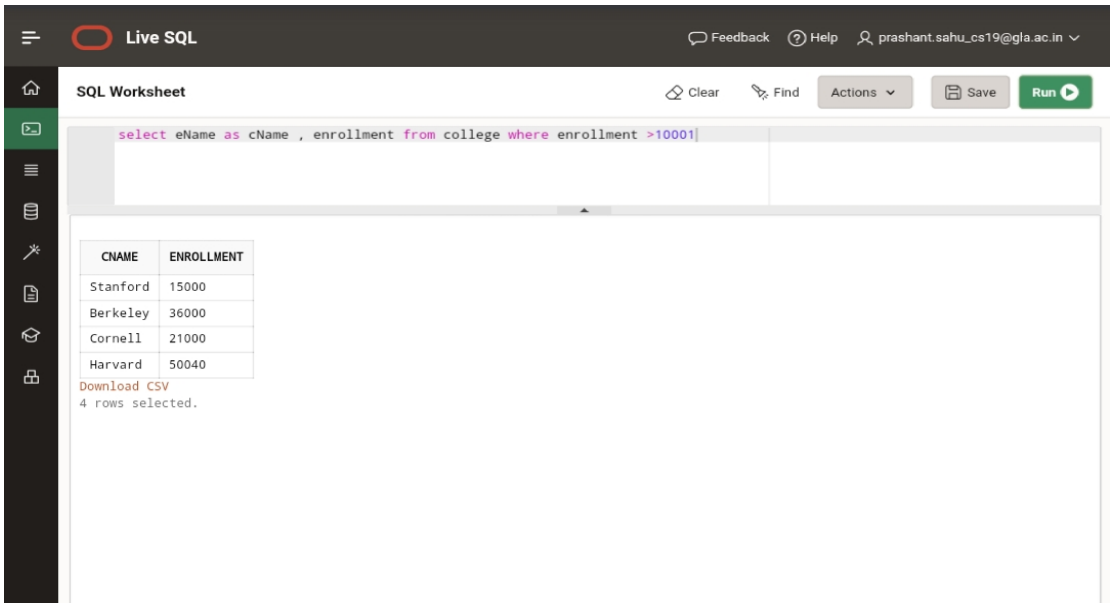
9.List the sID, cName of applications which are filled at Stanford.



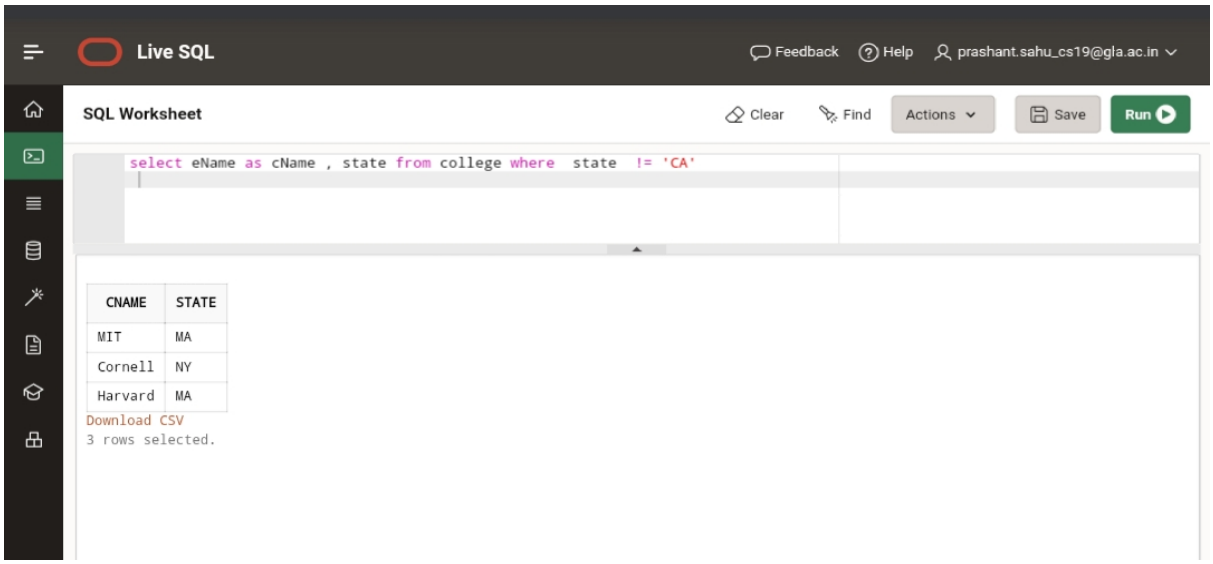
SID	CNAME
123	Stanford
123	Stanford
678	Stanford
987	Stanford
876	Stanford
765	Stanford

Download CSV
6 rows selected.

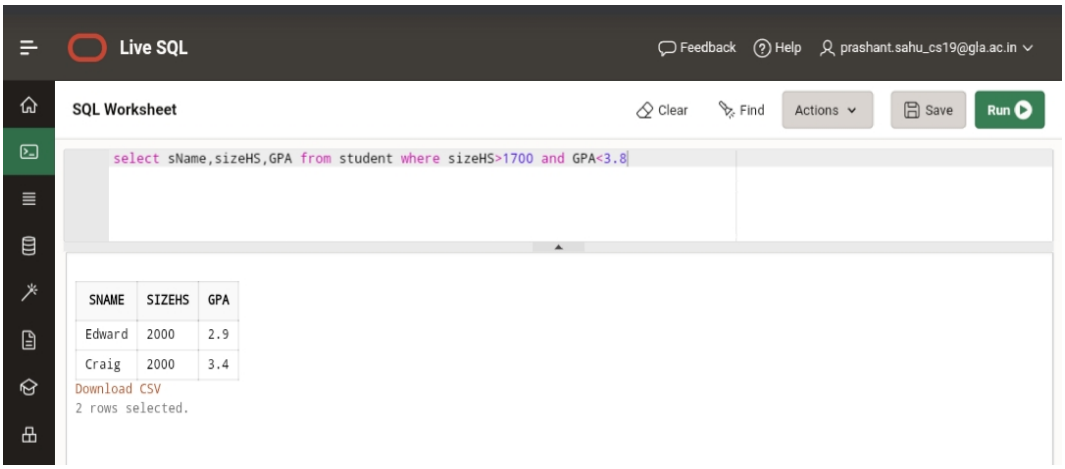
10. List the colleges that has enrollment greater than 10001.



11. List the colleges not in California.



12. List names of all student who came from high school having size greater than 1700 and scored GPA less than 3.8.

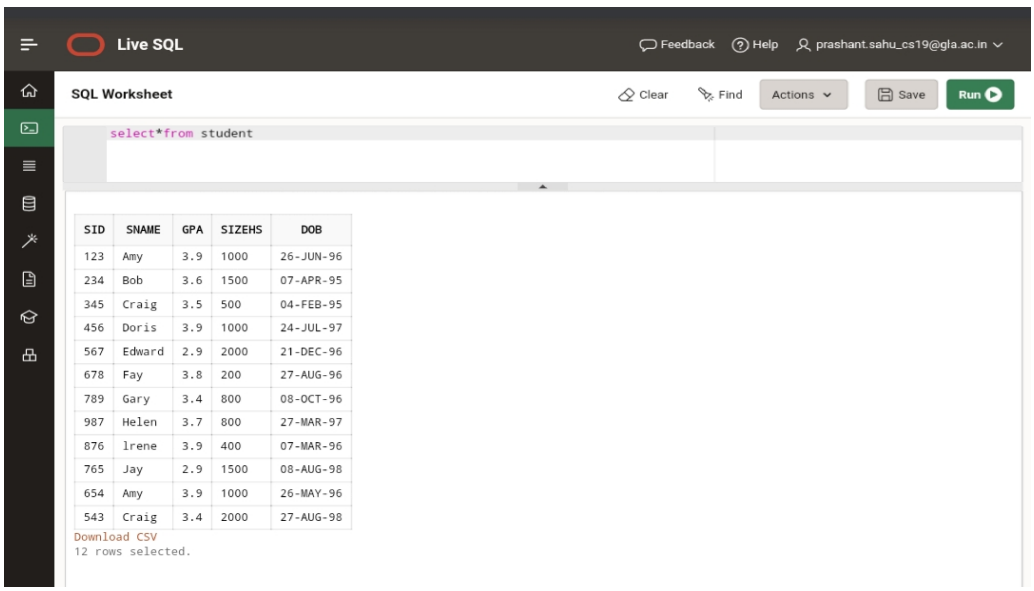


13. Display the description of the Student table.

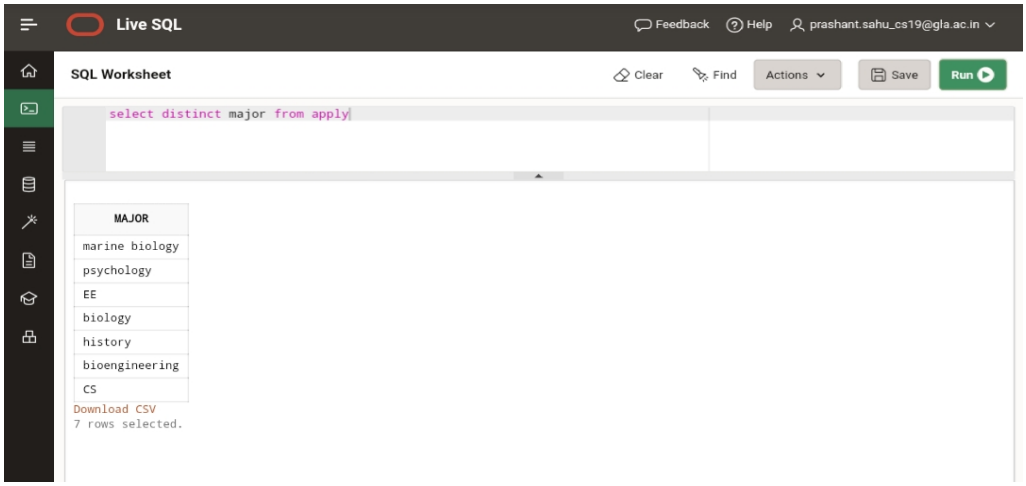
Table **STUDENT**

Column	Type	Length	Precision	Scale	Nullable
SID	NUMBER	22		0	Yes
SNAME	VARCHAR2	10			Yes
GPA	NUMBER	22	2	1	Yes
SIZEHS	NUMBER	22		0	Yes
DOB	DATE	7			Yes

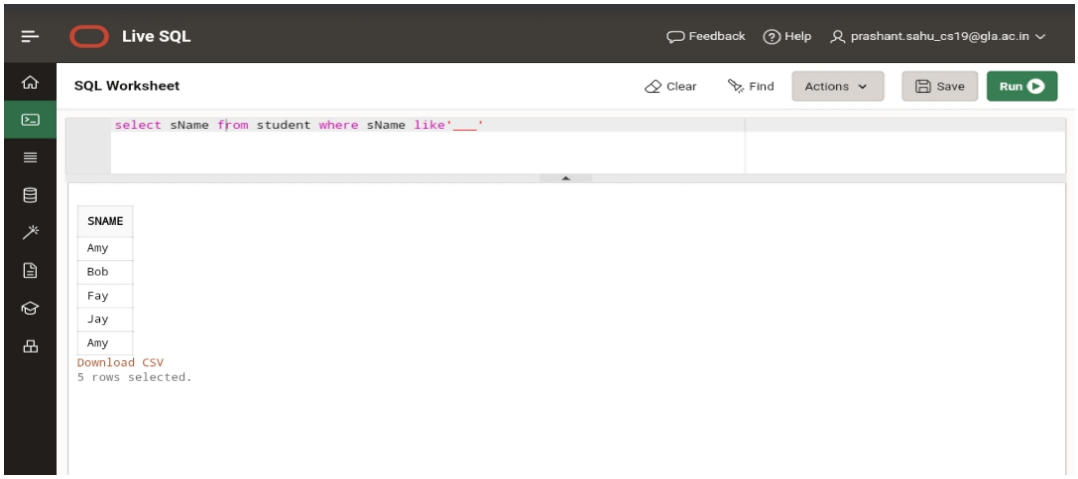
14. Display the details of all students.



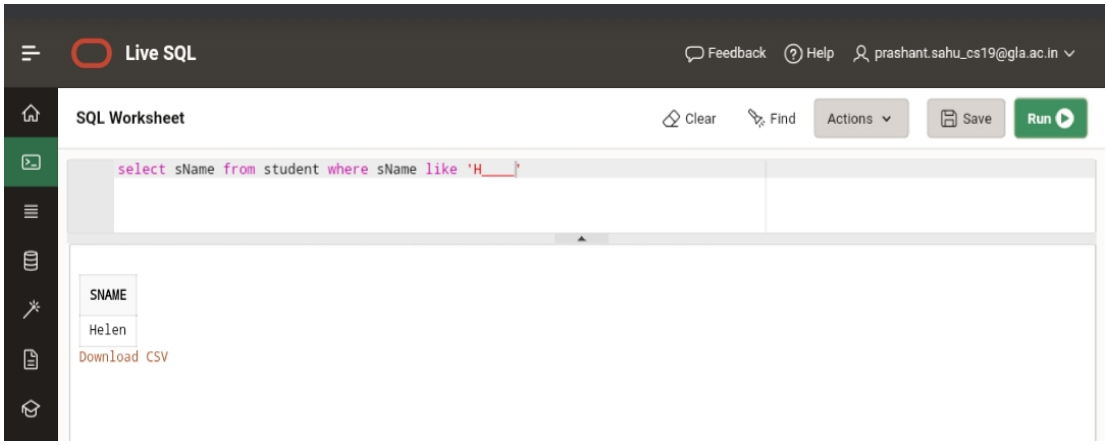
15. Display unique majors.



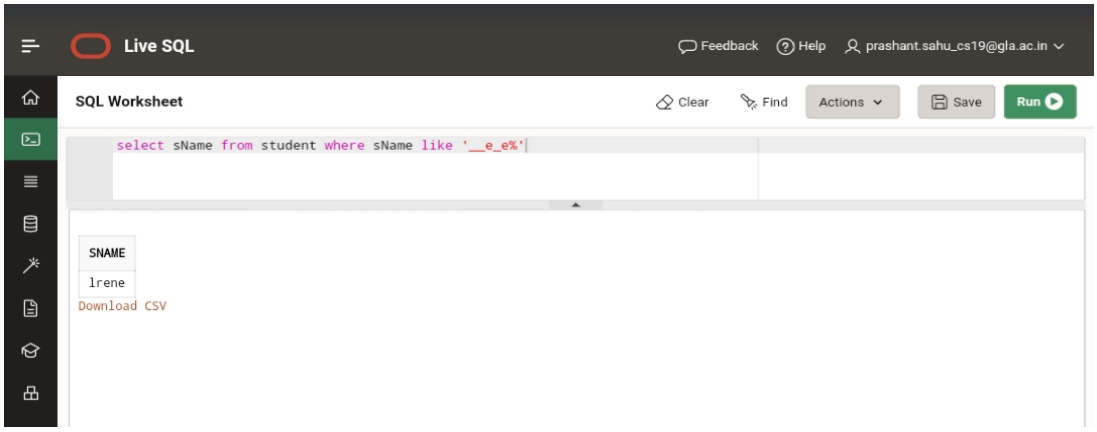
16. List the student names those are having three characters in their Names.



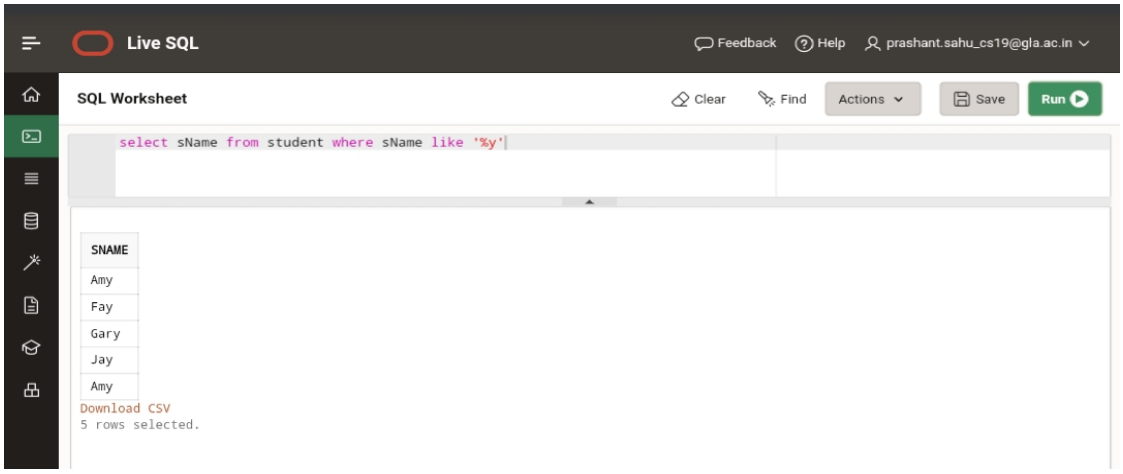
17. List the student names those are starting with ‘H’ and with five characters.



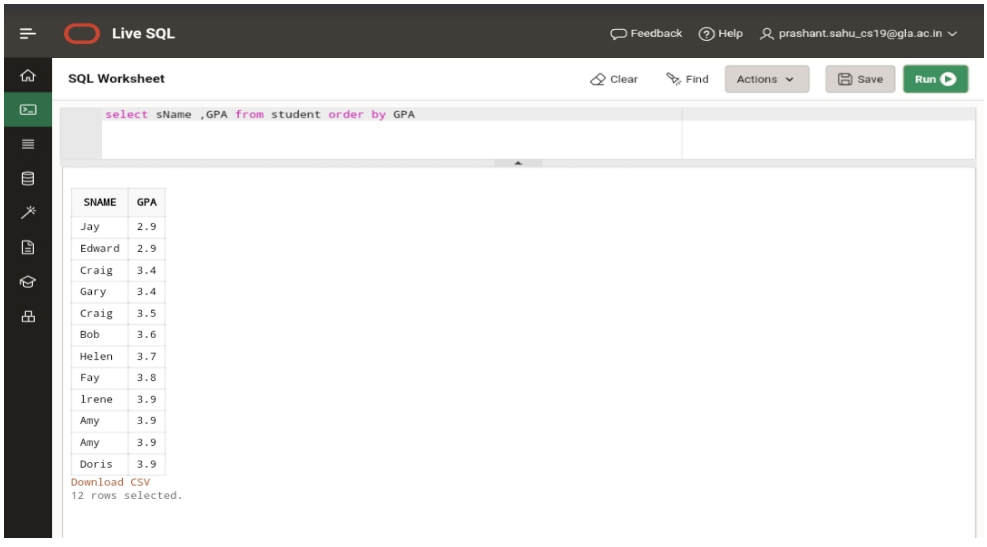
18. List the student names those are having third character and fifth char. must be ‘e’.



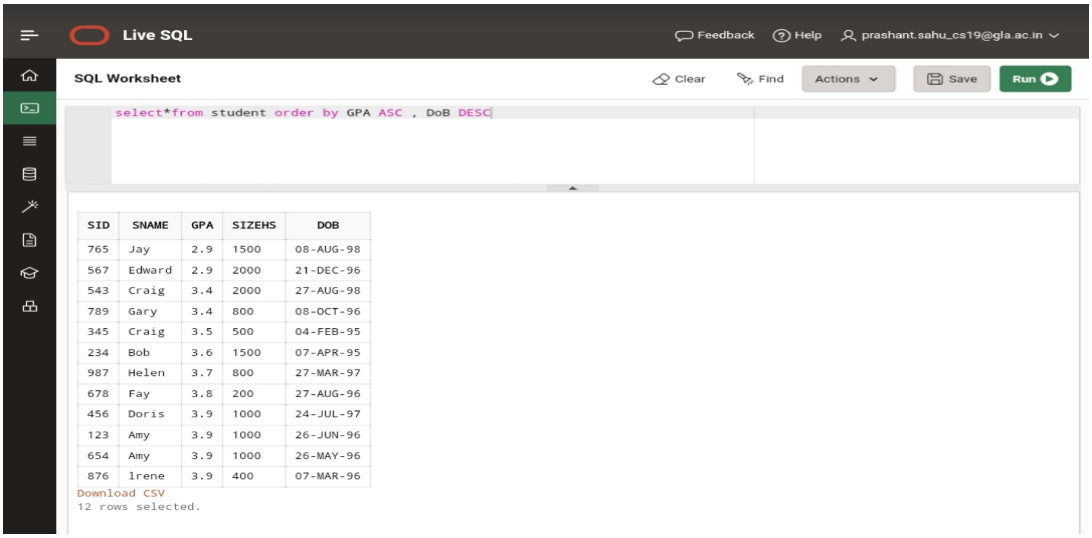
19. List the student names ending with ‘y’.



20. List the Students in the order of their GPA.



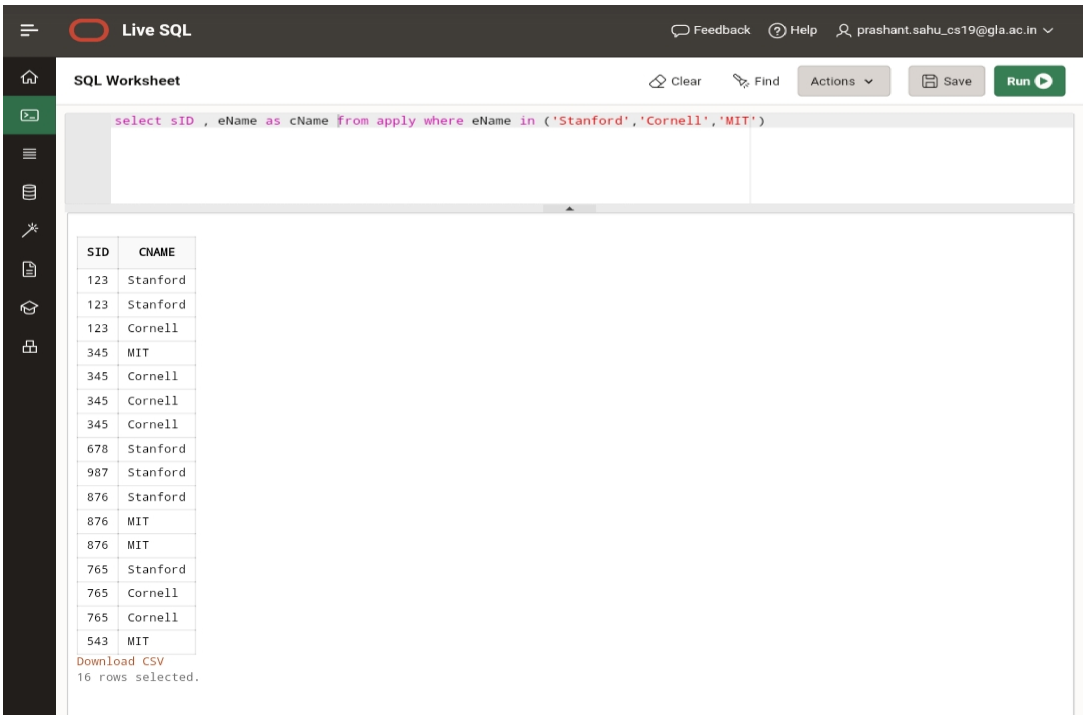
21. List the details of the students in order of the ascending of GPA and descending of DoB.



SID	SNAME	GPA	SIZEHS	DOB
765	Jay	2.9	1500	08-AUG-98
567	Edward	2.9	2000	21-DEC-96
543	Craig	3.4	2000	27-AUG-98
789	Gary	3.4	800	08-OCT-96
345	Craig	3.5	500	04-FEB-95
234	Bob	3.6	1500	07-APR-95
987	Helen	3.7	800	27-MAR-97
678	Fay	3.8	200	27-AUG-96
456	Doris	3.9	1000	24-JUL-97
123	Amy	3.9	1000	26-JUN-96
654	Amy	3.9	1000	26-MAY-96
876	Irene	3.9	400	07-MAR-96

Download CSV
12 rows selected.

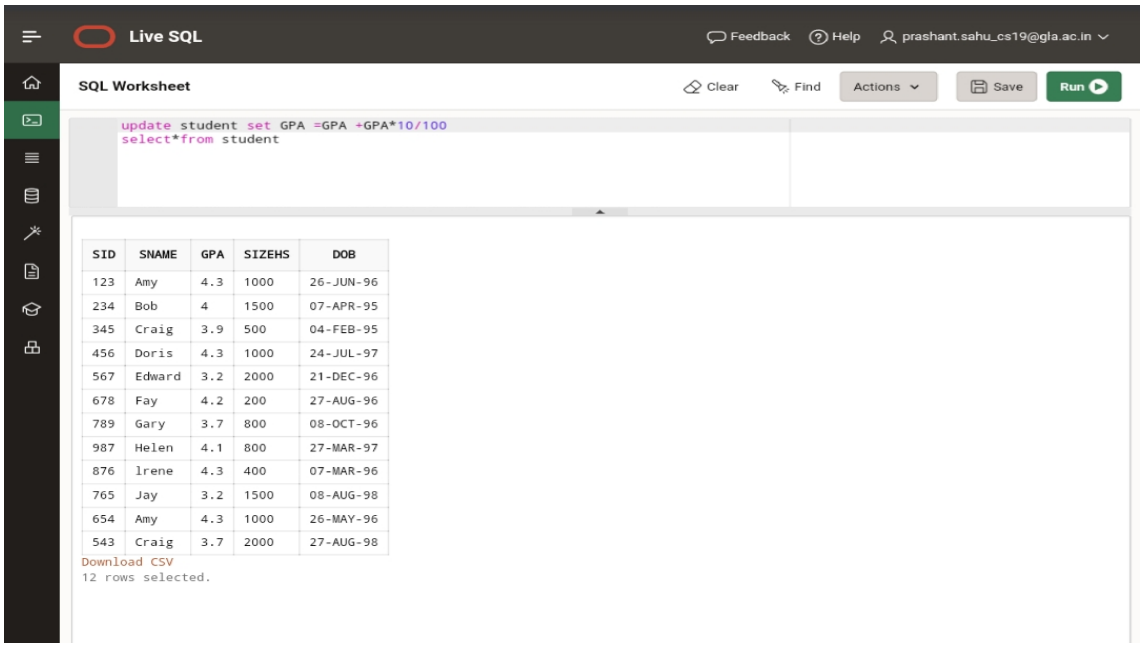
22. List the sIDs of student who apply in either ‘Stanford’, ‘Cornell’ or ‘MIT’college.



SID	CNAME
123	Stanford
123	Stanford
123	Cornell
345	MIT
345	Cornell
345	Cornell
345	Cornell
678	Stanford
987	Stanford
876	Stanford
876	MIT
876	MIT
765	Stanford
765	Cornell
765	Cornell
543	MIT

Download CSV
16 rows selected.

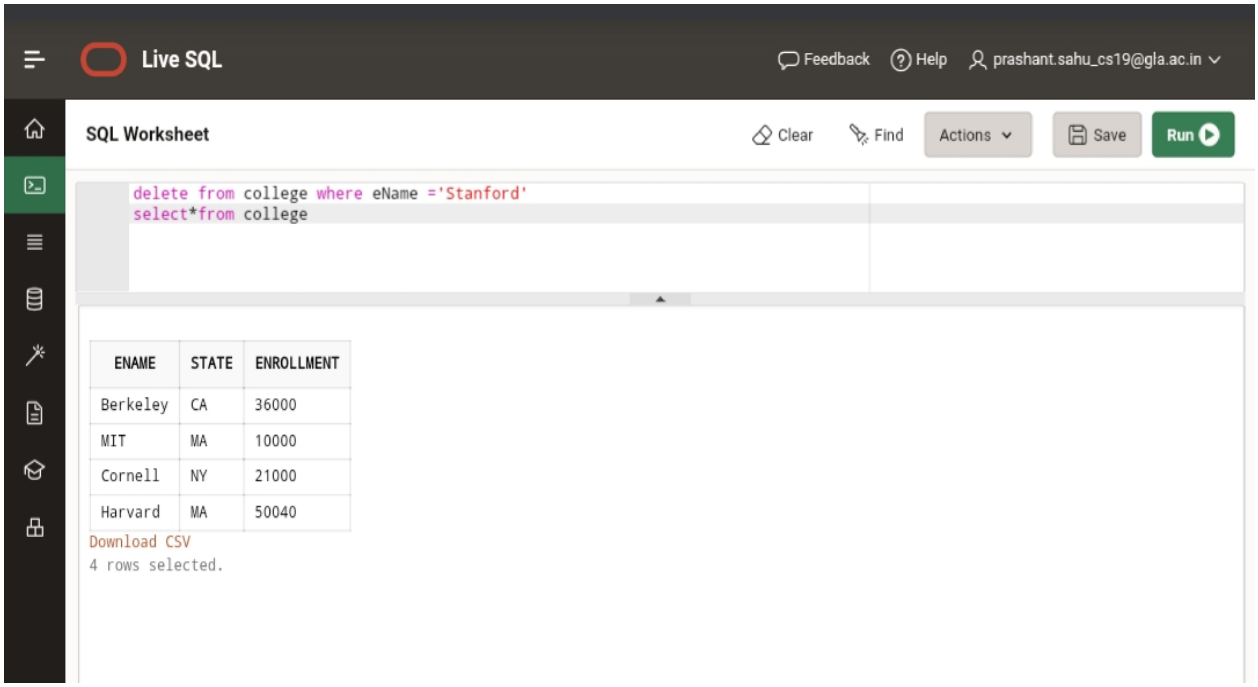
23. Modify the GPA of all students by giving 10% raise in their GPA.



SID	SNAME	GPA	SIZEHS	DOB
123	Amy	4.3	1000	26-JUN-96
234	Bob	4	1500	07-APR-95
345	Craig	3.9	500	04-FEB-95
456	Doris	4.3	1000	24-JUL-97
567	Edward	3.2	2000	21-DEC-96
678	Fay	4.2	200	27-AUG-96
789	Gary	3.7	800	08-OCT-96
987	Helen	4.1	800	27-MAR-97
876	Irene	4.3	400	07-MAR-96
765	Jay	3.2	1500	08-AUG-98
654	Amy	4.3	1000	26-MAY-96
543	Craig	3.7	2000	27-AUG-98

Download CSV
12 rows selected.

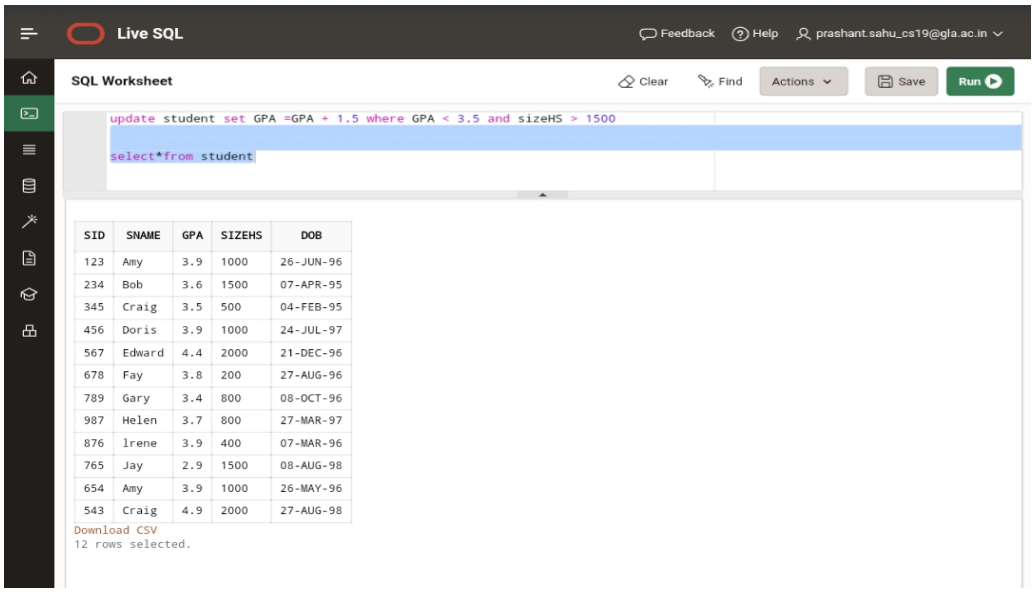
24. Delete the college Stanford from college table.



ENAME	STATE	ENROLLMENT
Berkeley	CA	36000
MIT	MA	10000
Cornell	NY	21000
Harvard	MA	50040

Download CSV
4 rows selected.

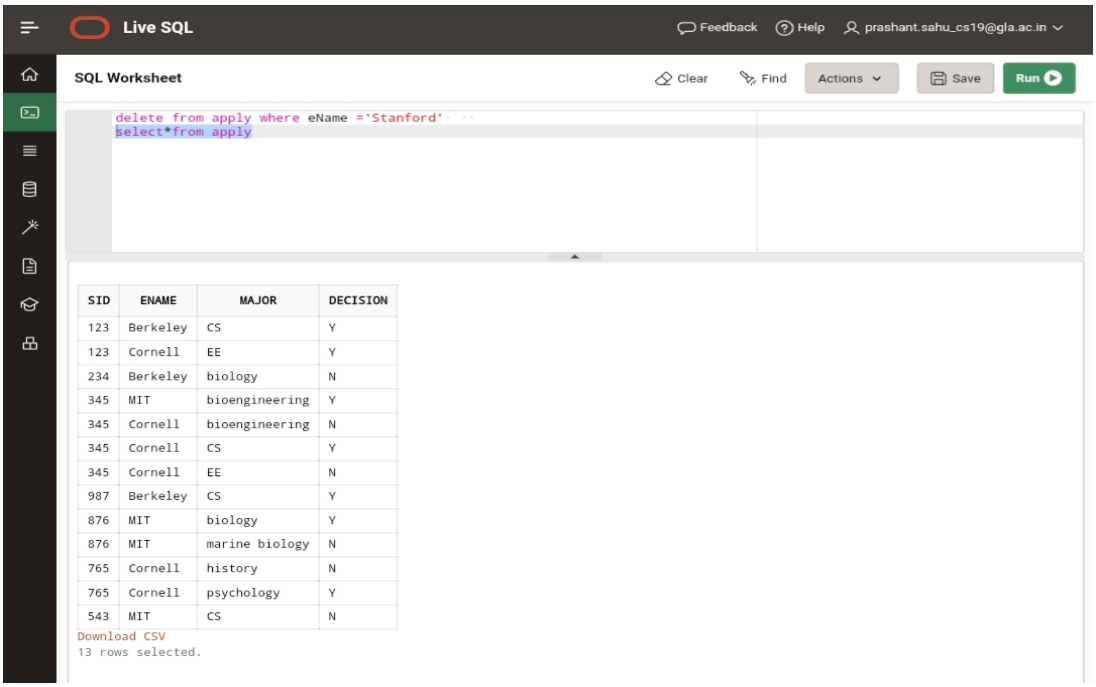
25. Increment the GPA of the students by 1.5 whose GPA is less than 3.5 and belong to High School having size greater than 1500.



SID	SNAME	GPA	SIZEHS	DOB
123	Amy	3.9	1000	26-JUN-96
234	Bob	3.6	1500	07-APR-95
345	Craig	3.5	500	04-FEB-95
456	Doris	3.9	1000	24-JUL-97
567	Edward	4.4	2000	21-DEC-96
678	Fay	3.8	200	27-AUG-96
789	Gary	3.4	800	08-OCT-96
987	Helen	3.7	800	27-MAR-97
876	Irene	3.9	400	07-MAR-96
765	Jay	2.9	1500	08-AUG-98
654	Amy	3.9	1000	26-MAY-96
543	Craig	4.9	2000	27-AUG-98

Download CSV
12 rows selected.

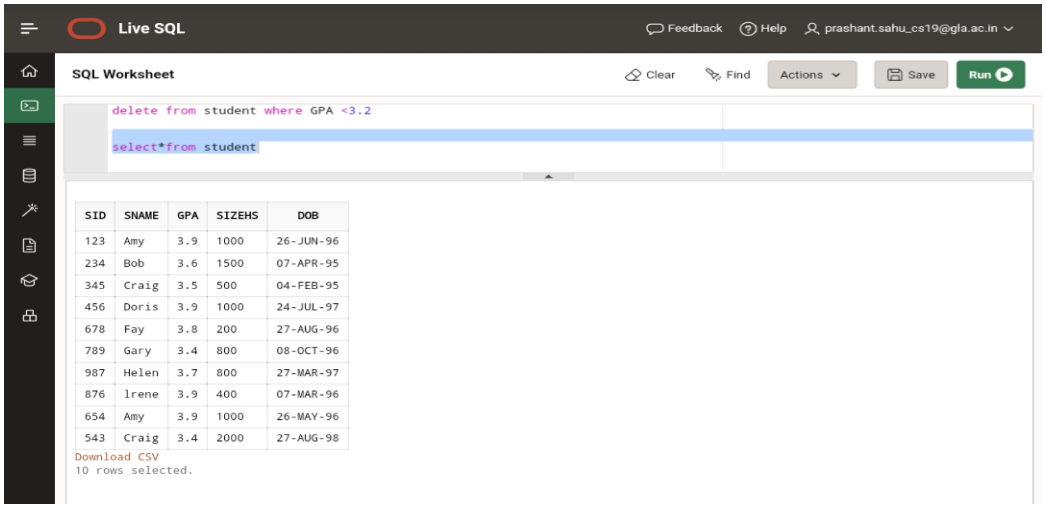
26. Delete all applications filled at Stanford :



SID	ENAME	MAJOR	DECISION
123	Berkeley	CS	Y
123	Cornell	EE	Y
234	Berkeley	biology	N
345	MIT	bioengineering	Y
345	Cornell	bioengineering	N
345	Cornell	CS	Y
345	Cornell	EE	N
987	Berkeley	CS	Y
876	MIT	biology	Y
876	MIT	marine biology	N
765	Cornell	history	N
765	Cornell	psychology	Y
543	MIT	CS	N

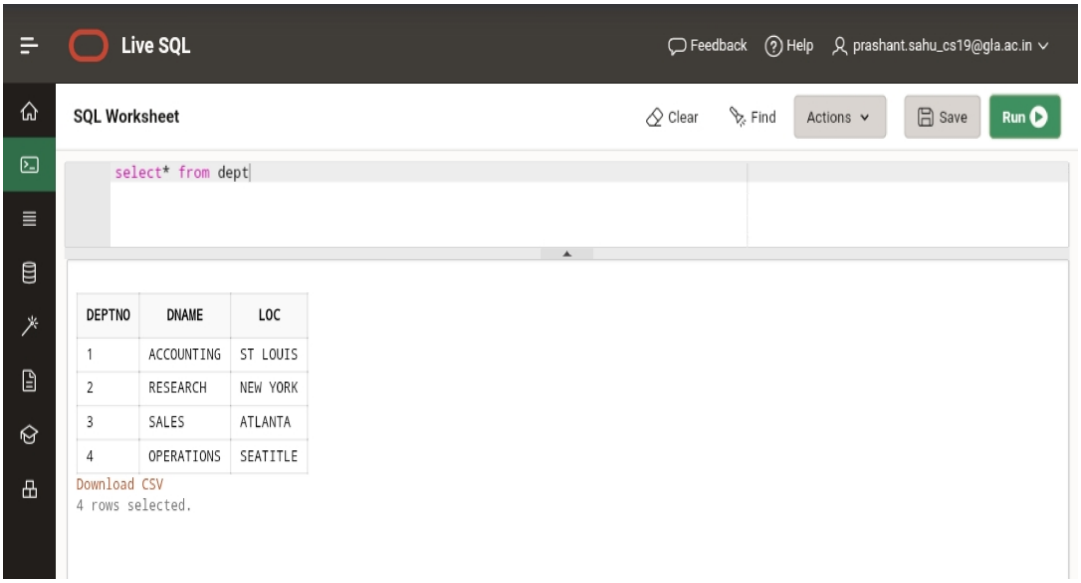
Download CSV
13 rows selected.

27. Delete the students who have scored less than 3.2 GPA.



Exercise-2

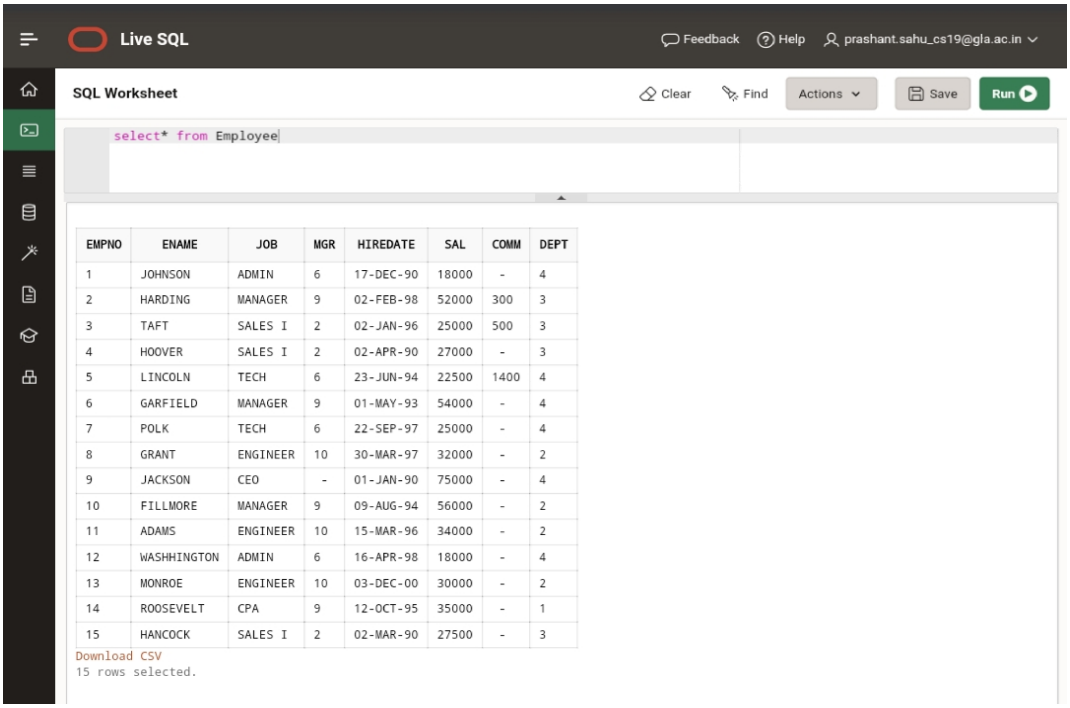
Dept



DEPTNO	DNAME	LOC
1	ACCOUNTING	ST LOUIS
2	RESEARCH	NEW YORK
3	SALES	ATLANTA
4	OPERATIONS	SEATITLE

Download CSV
4 rows selected.

Employee

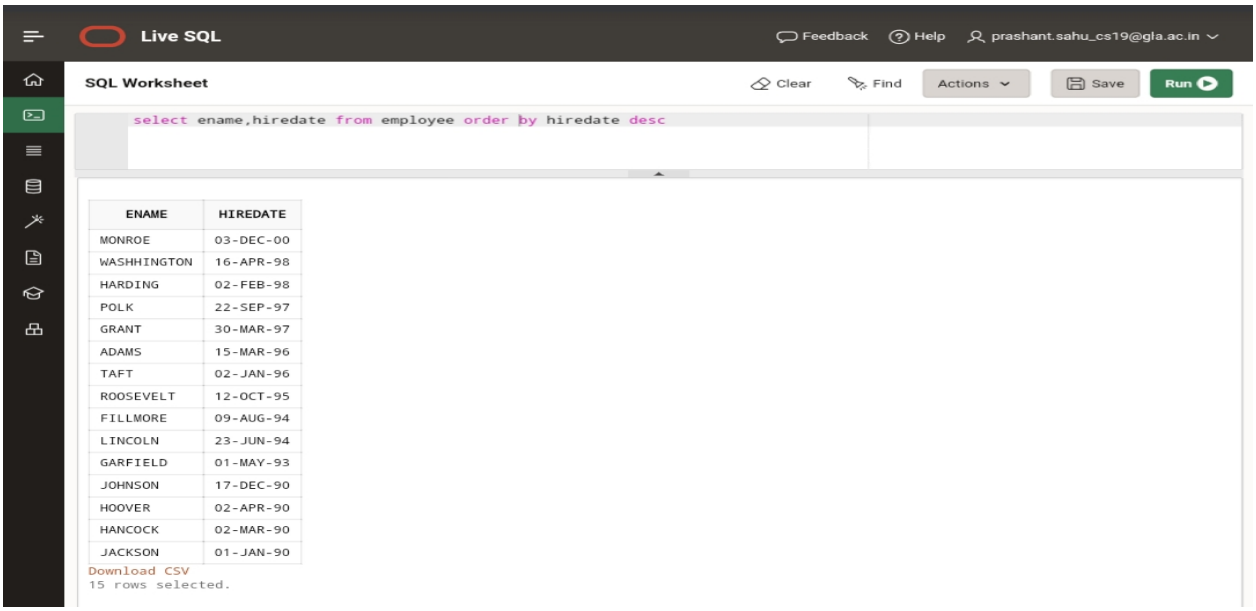


EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT
1	JOHNSON	ADMIN	6	17-DEC-90	18000	-	4
2	HARDING	MANAGER	9	02-FEB-98	52000	300	3
3	TAFT	SALES I	2	02-JAN-96	25000	500	3
4	HOOVER	SALES I	2	02-APR-90	27000	-	3
5	LINCOLN	TECH	6	23-JUN-94	22500	1400	4
6	GARFIELD	MANAGER	9	01-MAY-93	54000	-	4
7	POLK	TECH	6	22-SEP-97	25000	-	4
8	GRANT	ENGINEER	10	30-MAR-97	32000	-	2
9	JACKSON	CEO	-	01-JAN-90	75000	-	4
10	FILLMORE	MANAGER	9	09-AUG-94	56000	-	2
11	ADAMS	ENGINEER	10	15-MAR-96	34000	-	2
12	WASHHINGTON	ADMIN	6	16-APR-98	18000	-	4
13	MONROE	ENGINEER	10	03-DEC-00	30000	-	2
14	ROOSEVELT	CPA	9	12-OCT-95	35000	-	1
15	HANCOCK	SALES I	2	02-MAR-90	27500	-	3

Download CSV
15 rows selected.

Queries

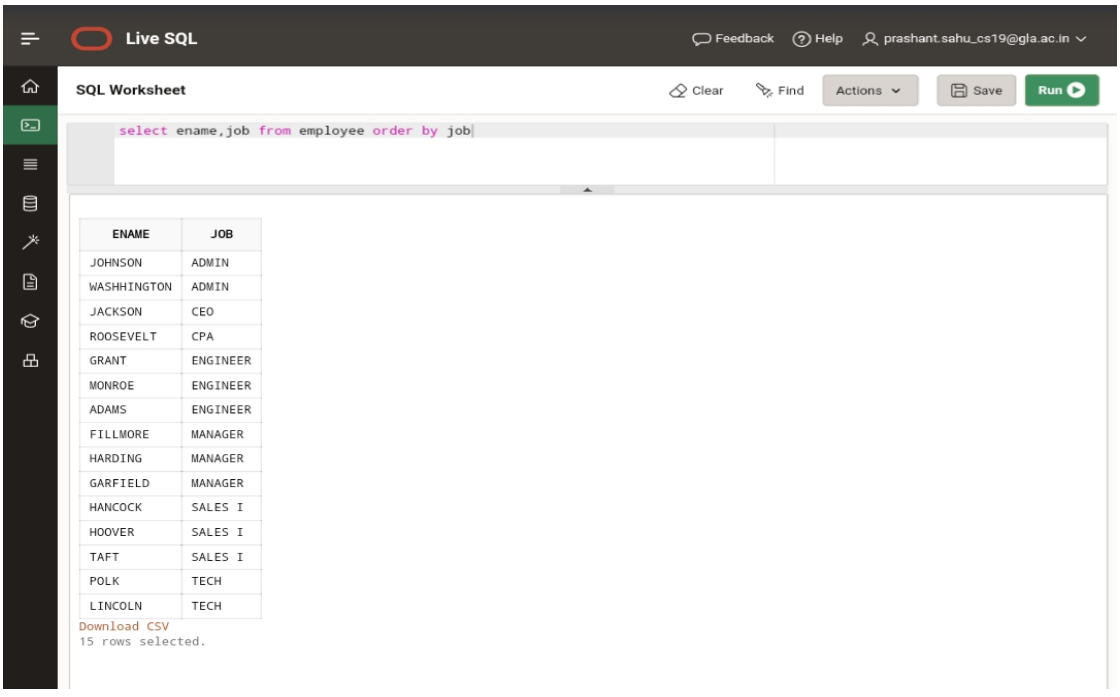
Q1. Employee Name and Hire Date sorted by Hire Date (Recent to Old) :



ENAME	HIREDATE
MONROE	03-DEC-00
WASHHINGTON	16-APR-98
HARDING	02-FEB-98
POLK	22-SEP-97
GRANT	30-MAR-97
ADAMS	15-MAR-96
TAFT	02-JAN-96
ROOSEVELT	12-OCT-95
FILLMORE	09-AUG-94
LINCOLN	23-JUN-94
GARFIELD	01-MAY-93
JOHNSON	17-DEC-90
HOOVER	02-APR-90
HANCOCK	02-MAR-90
JACKSON	01-JAN-90

Download CSV
15 rows selected.

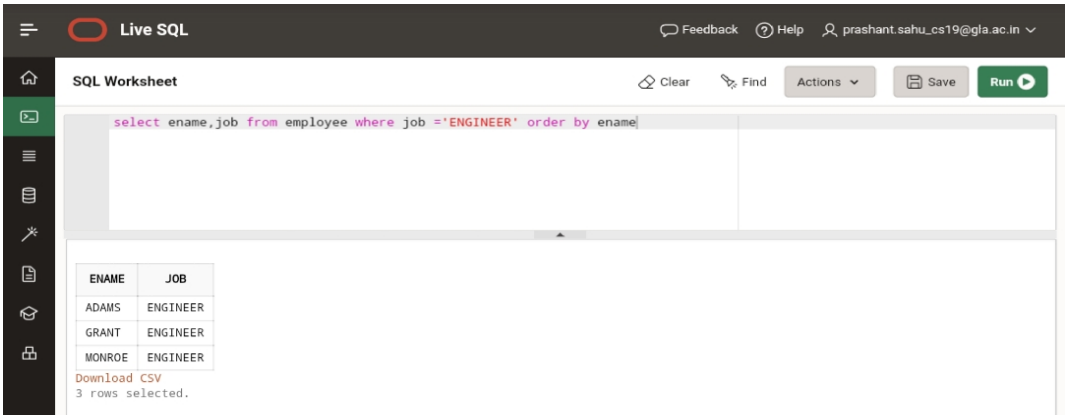
Q2. Employee Name and Job sorted by Job (Alphabetically) :



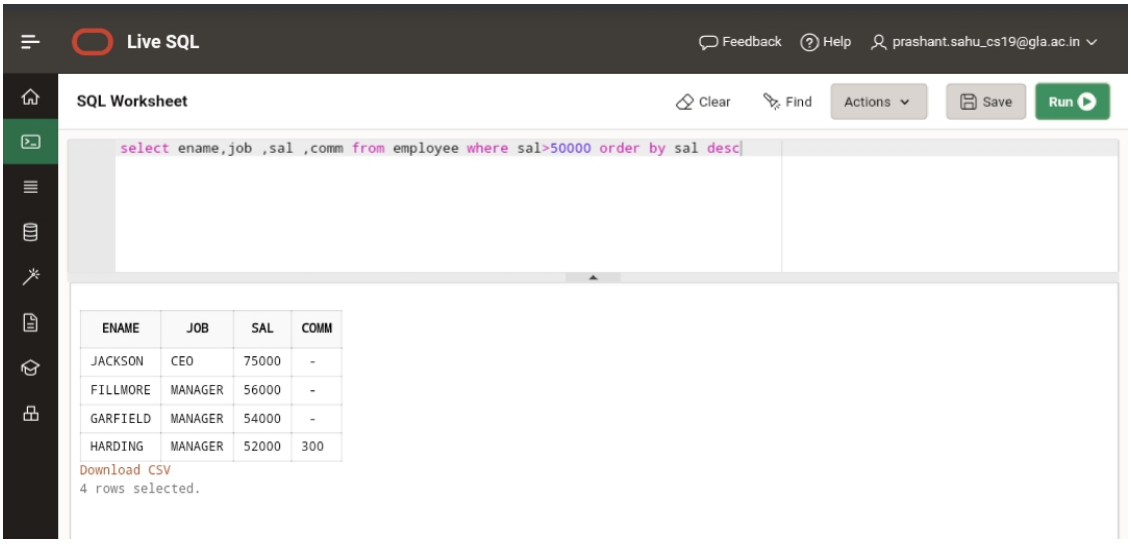
ENAME	JOB
JOHNSON	ADMIN
WASHHINGTON	ADMIN
JACKSON	CEO
ROOSEVELT	CPA
GRANT	ENGINEER
MONROE	ENGINEER
ADAMS	ENGINEER
FILLMORE	MANAGER
HARDING	MANAGER
GARFIELD	MANAGER
HANCOCK	SALES I
HOOVER	SALES I
TAFT	SALES I
POLK	TECH
LINCOLN	TECH

Download CSV
15 rows selected.

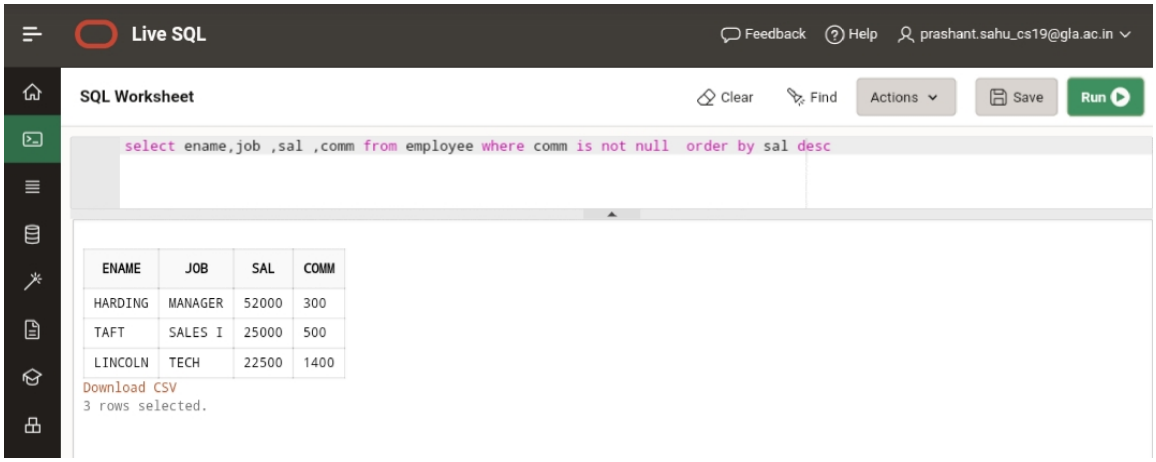
Q3. Employee Name and Job for all Engineers, sorted by Employee Name Alphabetically :



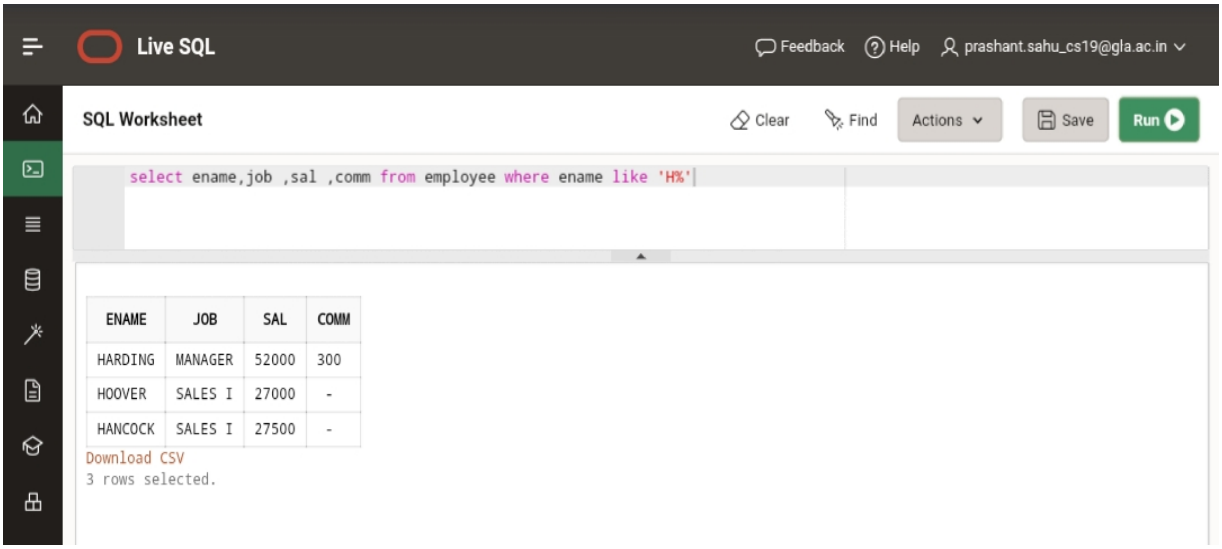
Q4. Job, Employee Name, Salary and Commission for employees with salary over 50000 sorted by Salary (Largest to Smallest) :



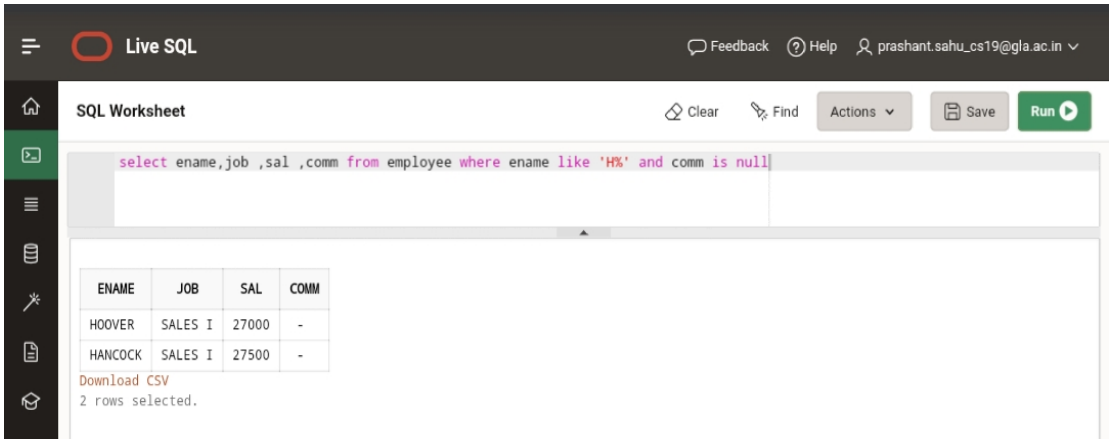
Q5. Job, Employee Name, Salary and Commission for employees with a Commission sorted by Salary (Largest to Smallest).



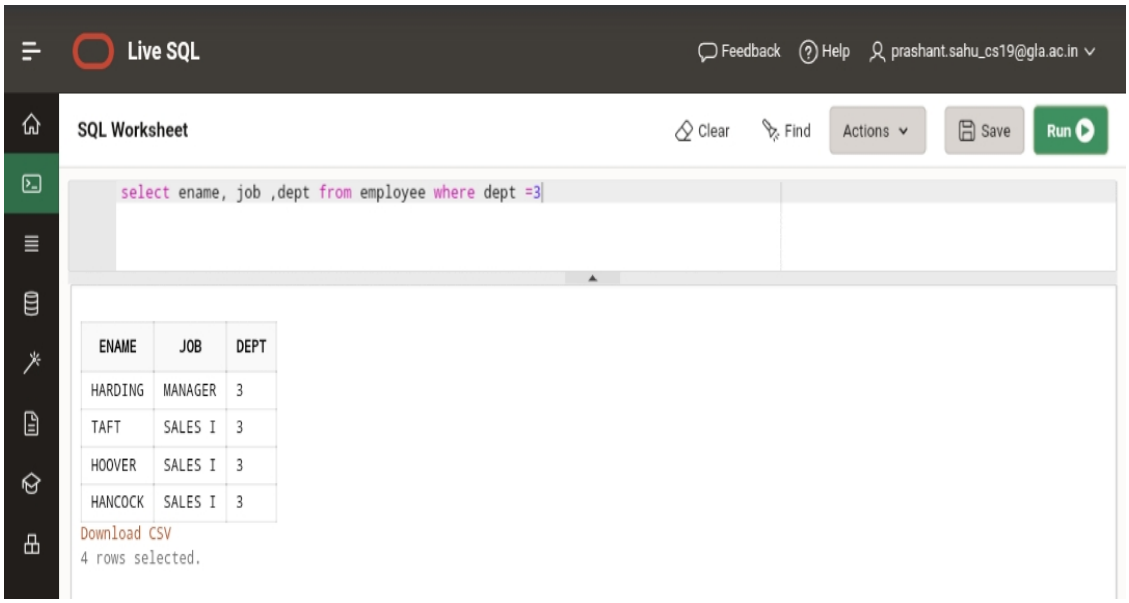
Q6. Job, Employee Name, Salary and Commission for employees whose name starts with the letter H :



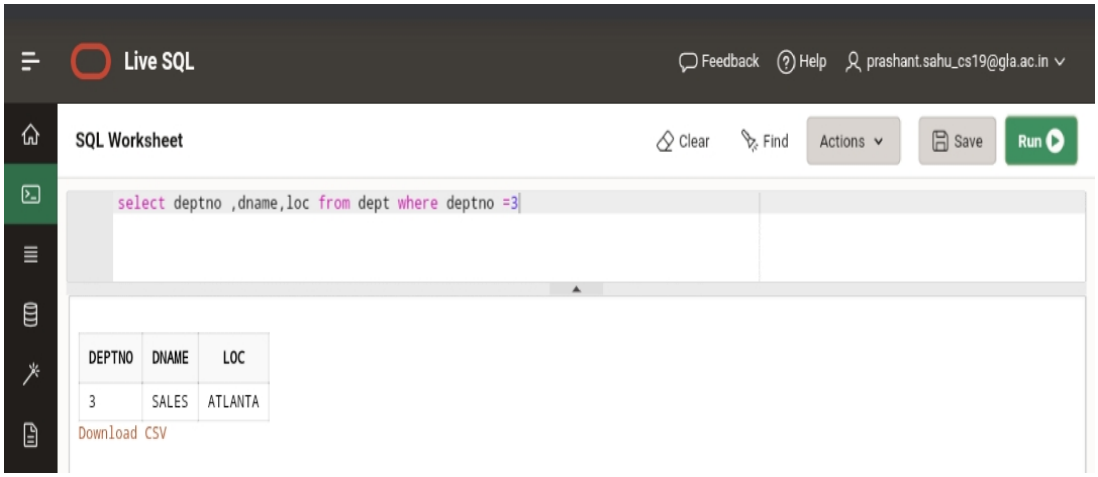
Q7. Job, Employee Name, Salary and Commission for employees whose name starts with the letter H and who do not get commission:



Q8. Job, Employee Name for employees in Dept No. 3 :



Q9. Dept Name and Loc for employees in Dept No. 3 :



Q10. Job, Employee Name, Dept, Salary sorted first by Dept (Smallest to Largest) and then Salary (Largest to Smallest) :