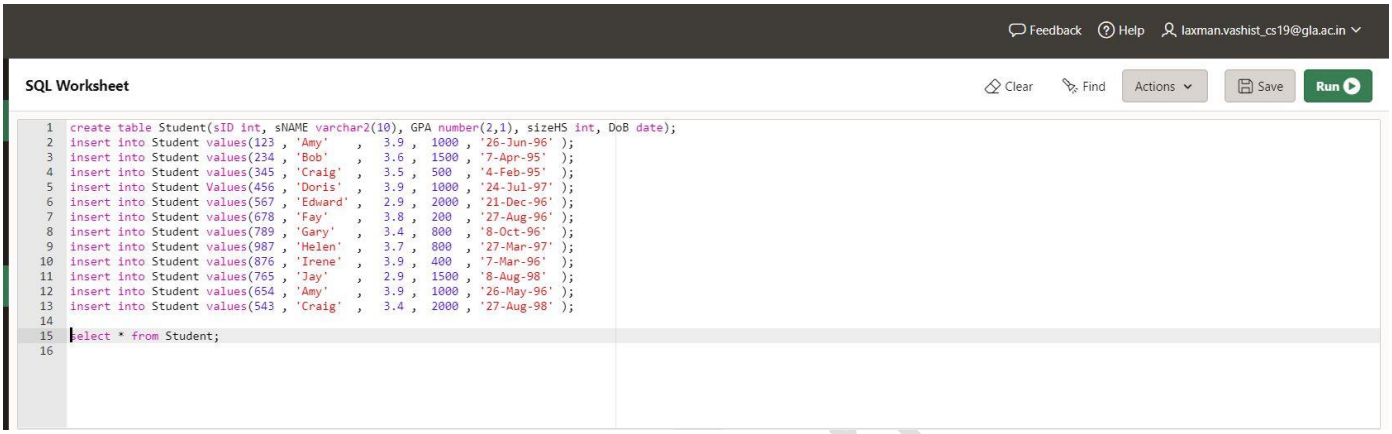
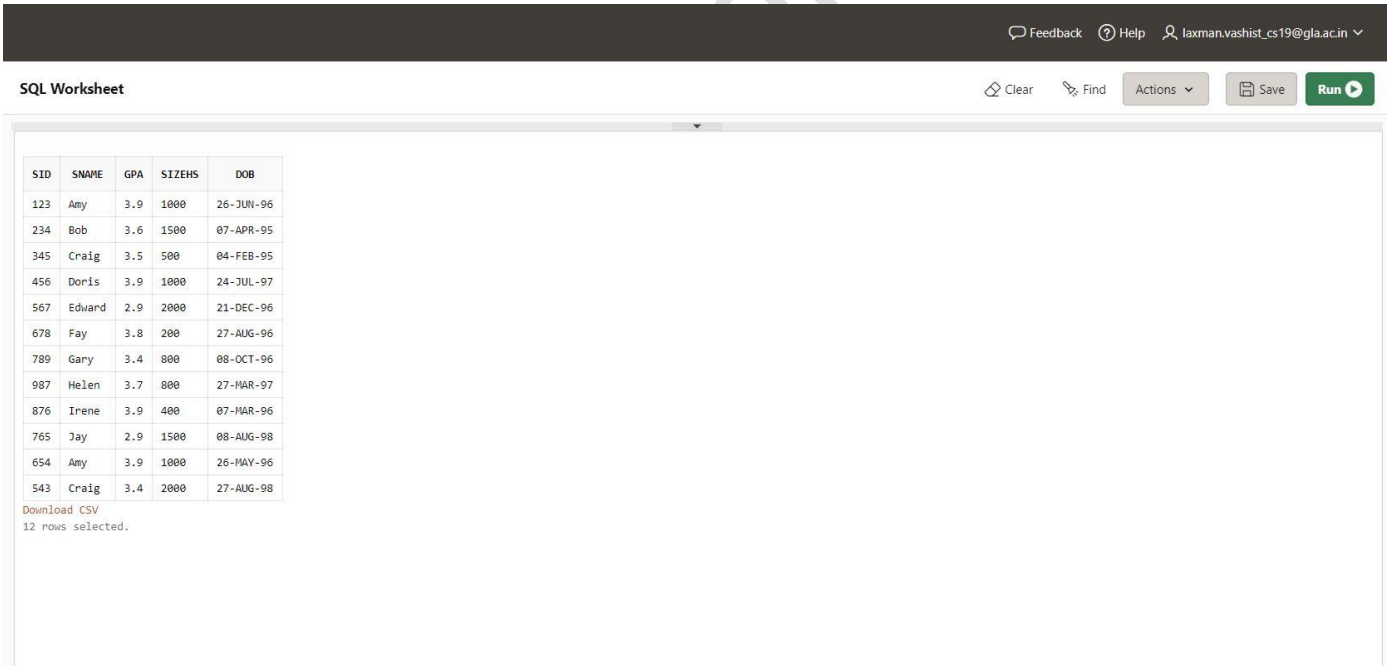
Student Table

Code ➔




```
1  create table Student(sID int, sNAME varchar2(10), GPA number(2,1), sizeHS int, DoB date);
2  insert into Student values(123 , 'Amy'     ,   3.9 ,  1000 , '26-Jun-96' );
3  insert into Student values(234 , 'Bob'     ,   3.6 ,  1500 , '7-Apr-95'  );
4  insert into Student values(345 , 'Craig'   ,   3.5 ,  500  , '4-Feb-95'  );
5  insert into Student Values(456 , 'Doris'   ,   3.9 ,  1000 , '24-Jul-97' );
6  insert into Student values(567 , 'Edward'  ,   2.9 ,  2000 , '21-Dec-96' );
7  insert into Student values(678 , 'Fay'     ,   3.8 ,  200  , '27-Aug-96' );
8  insert into Student values(789 , 'Gary'    ,   3.4 ,  800  , '8-Oct-96'  );
9  insert into Student values(987 , 'Helen'   ,   3.7 ,  800  , '27-Mar-97' );
10 insert into Student values(876 , 'Irene'   ,   3.9 ,  400  , '7-Mar-96'  );
11 insert into Student values(765 , 'Jay'     ,   2.9 ,  1500 , '8-Aug-98'  );
12 insert into Student values(654 , 'Amy'     ,   3.9 ,  1000 , '26-May-96' );
13 insert into Student values(543 , 'Craig'   ,   3.4 ,  2000 , '27-Aug-98' );
14
15 select * from Student;
16
```

Output ➔



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.

Apply Table

==========

Code ➔

=======

Feedback Help laxman.vashist_cs19@gla.ac.in

SQL Worksheet

Clear Find Actions Save Run

```
1  create table Apply(sId int, cNAME varchar2(10), major varchar2(20), decision char(1));
2  insert into Apply values(123, 'Stanford'  , 'cs'             , 'Y' );
3  insert into Apply values(123, 'Stanford'  , 'EE'             , 'N' );
4  insert into Apply values(123, 'Berkeley'  , 'CS'             , 'Y' );
5  insert into Apply Values(123, 'Cornell'   , 'EE'             , 'Y' );
6  insert into Apply values(234, 'Berkeley'  , 'Biology'        , 'N' );
7  insert into Apply values(345, 'MIT'       , 'Bioengineering' , 'Y' );
8  insert into Apply values(345, 'Cornell'   , 'Bioengineering' , 'N' );
9  insert into Apply values(345, 'Cornell'   , 'CS'             , 'Y' );
10 insert into Apply values(345, 'Corenell'  , 'EE'             , 'N' );
11 insert into Apply values(678, 'Stanford'  , 'History'        , 'Y' );
12 insert into Apply values(987, 'Stanford'  , 'CS'             , 'Y' );
13 insert into Apply values(987, 'Berkeley'  , 'CS'             , 'Y' );
14 insert into Apply values(876, 'Stanford'  , 'CS'             , 'N' );
15 insert into Apply values(876, 'MIT'       , 'Biology'        , 'Y' );
16 insert into Apply values(876, 'MIT'       , 'Marine Biology' , 'N' );
17 insert into Apply values(765, 'Stanford'  , 'History'        , 'Y' );
18 insert into Apply values(765, 'Cornell'   , 'HIstory'        , 'N' );
19 insert into Apply values(765, 'Cornell'   , 'psychology'     , 'Y' );
20 insert into Apply values(543, 'MIT'       , 'CS'             , 'N' );
21
22 select * from Apply  ;
```

Output

=======

Feedback Help laxman.vashist_cs19@gla.ac.in

SQL Worksheet

Clear Find Actions Save Run

SID	CNAME	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	Corenell	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

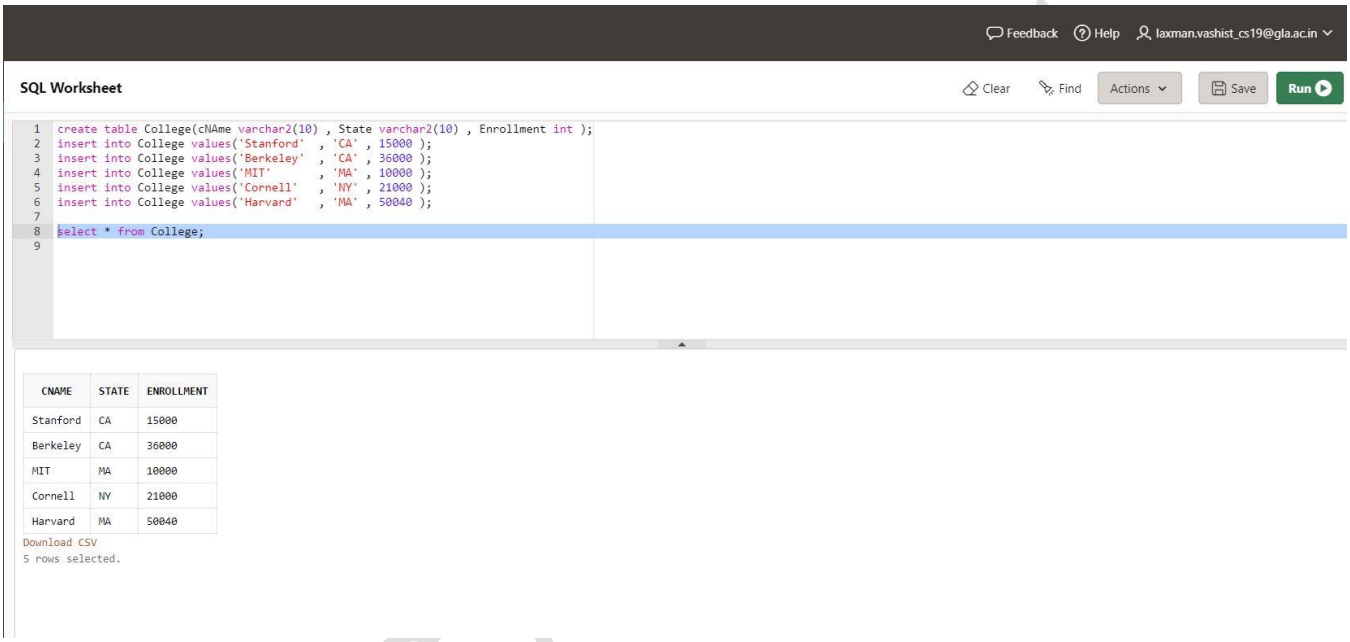
Download CSV

College Table

==========

Code & Output➔

==========



QUERIES

========

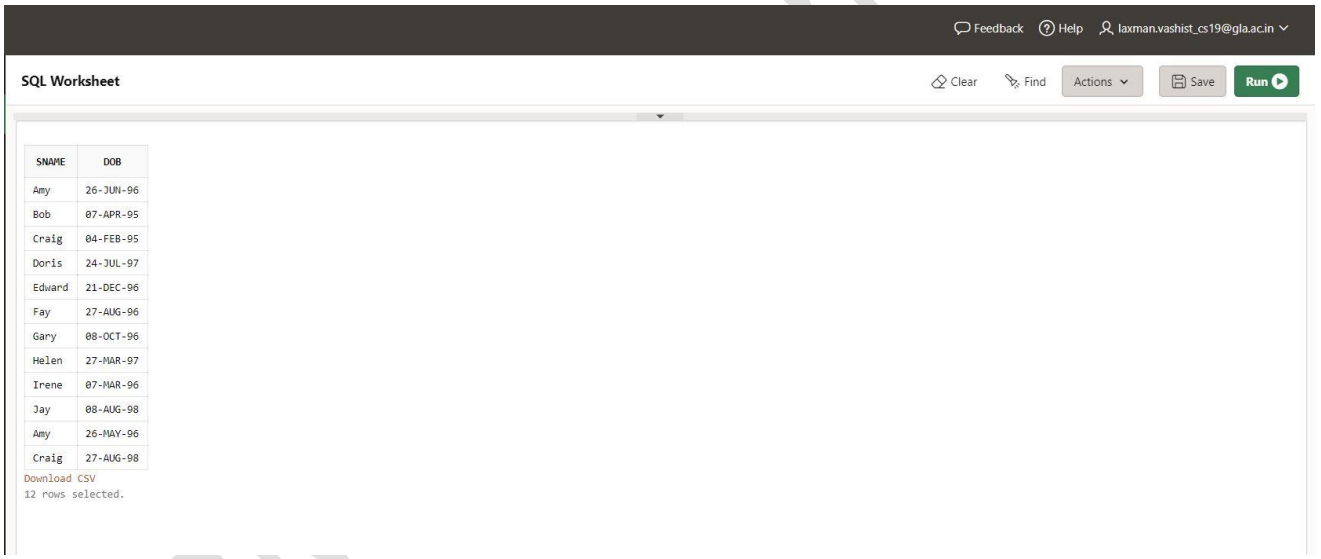
1. List the student name, dob from student table.

Code ➔

=======

Output➔

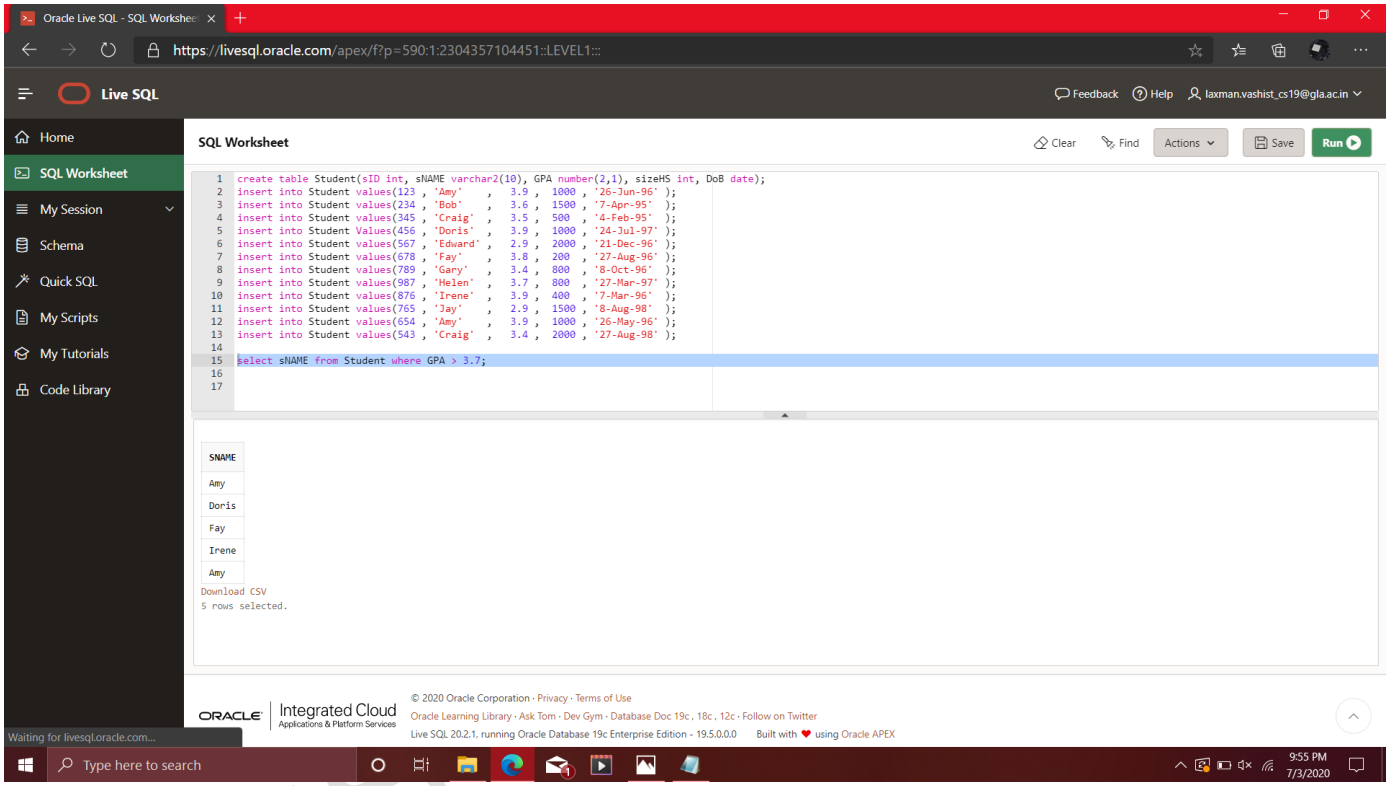
========



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

Code & output ➔

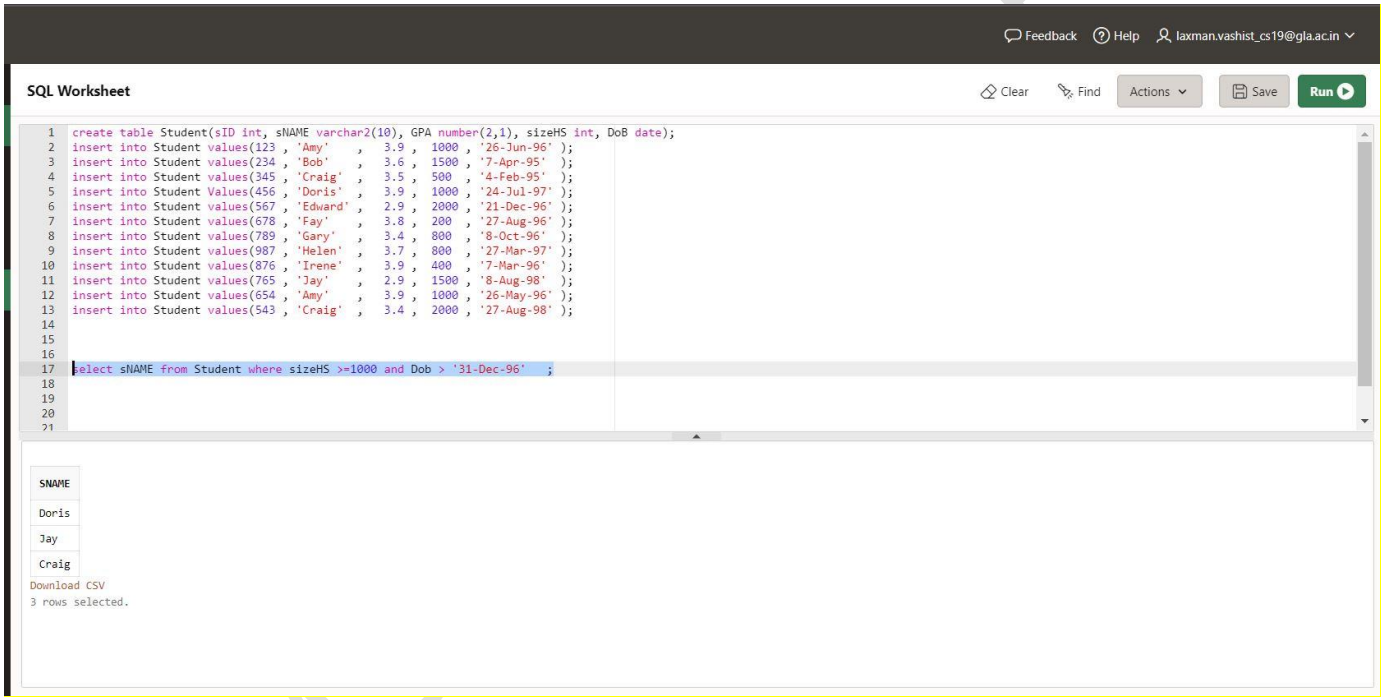
==========



3. List the name of student whose High School size is atleast 1000 and born after 1996. [Hint: check DoB greater than 31st December, 1996].

Code & Output➔

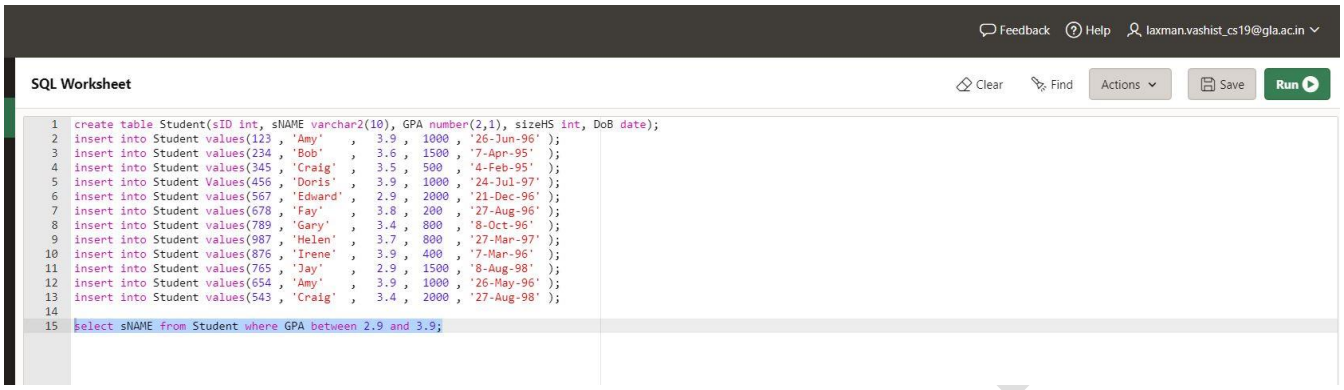
==========



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

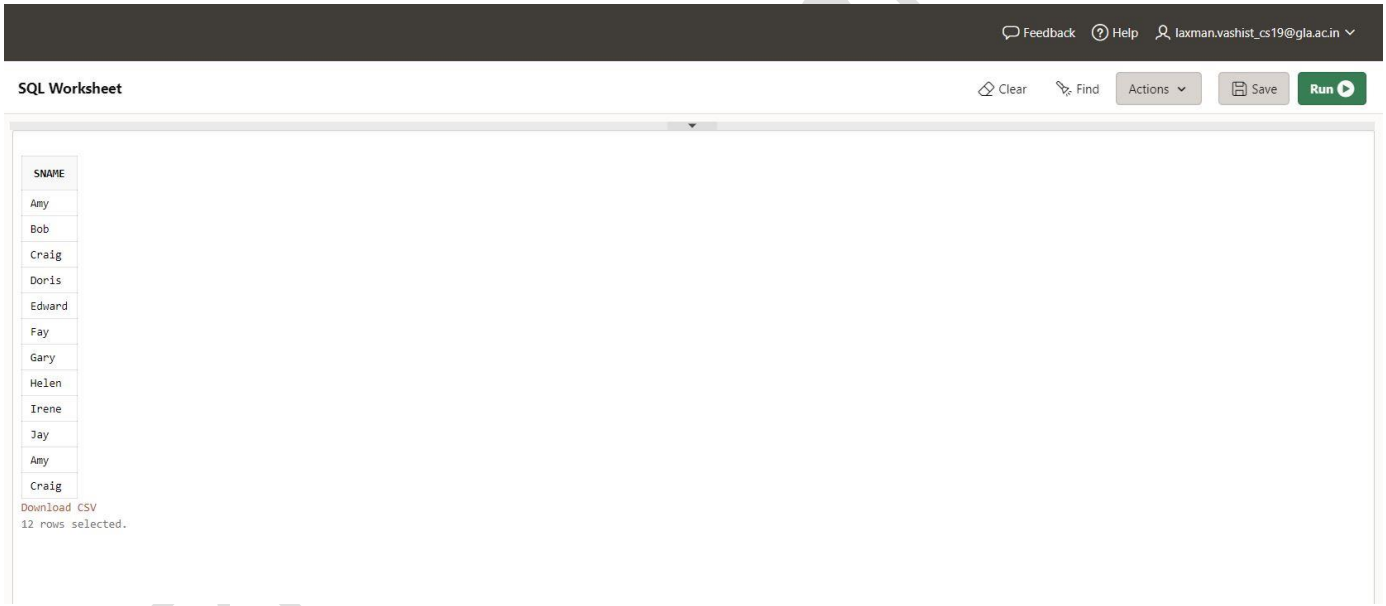
Code ➔

=======



Output ➔

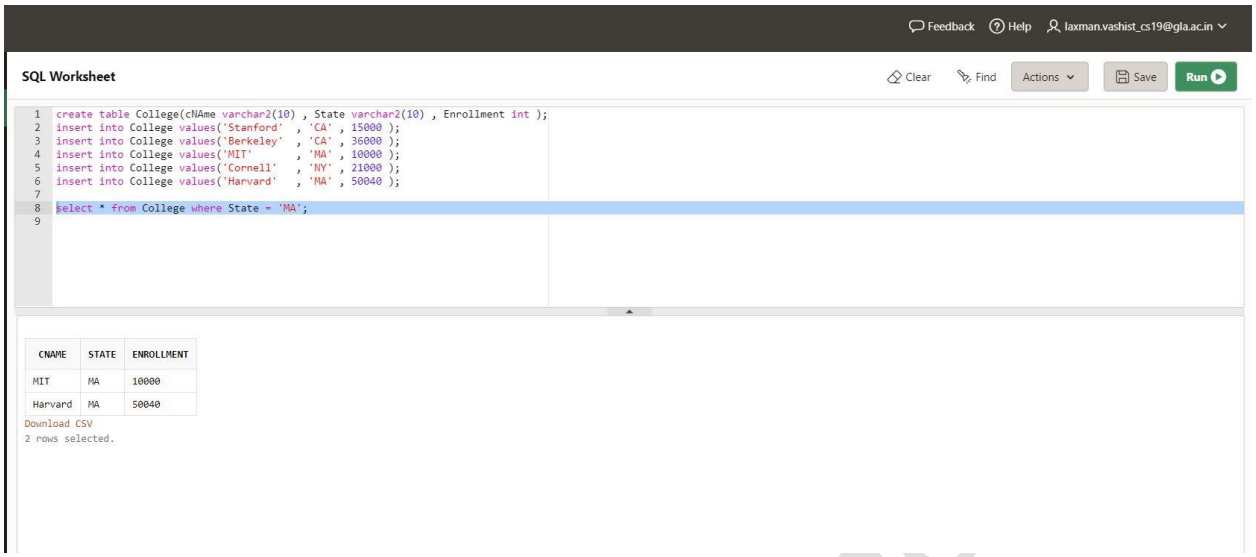
==========



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

Code & Output ➔

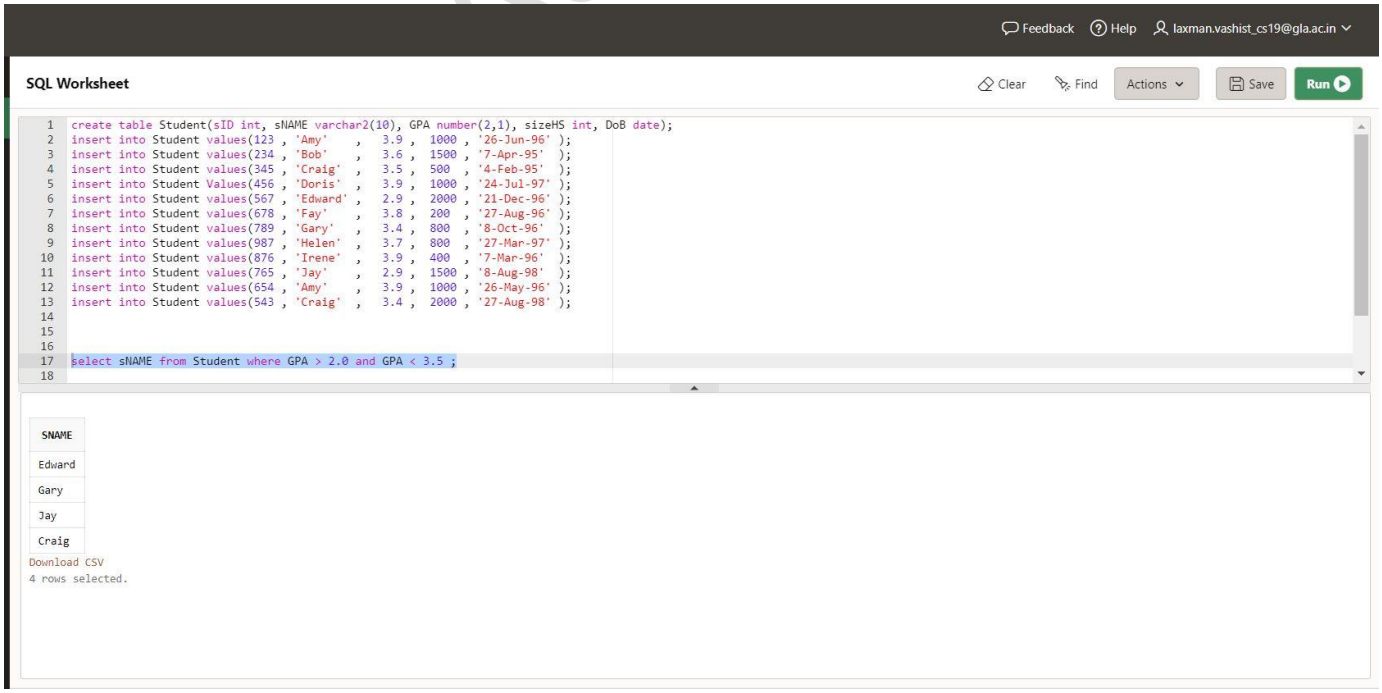
==========



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

Code & Output ➔

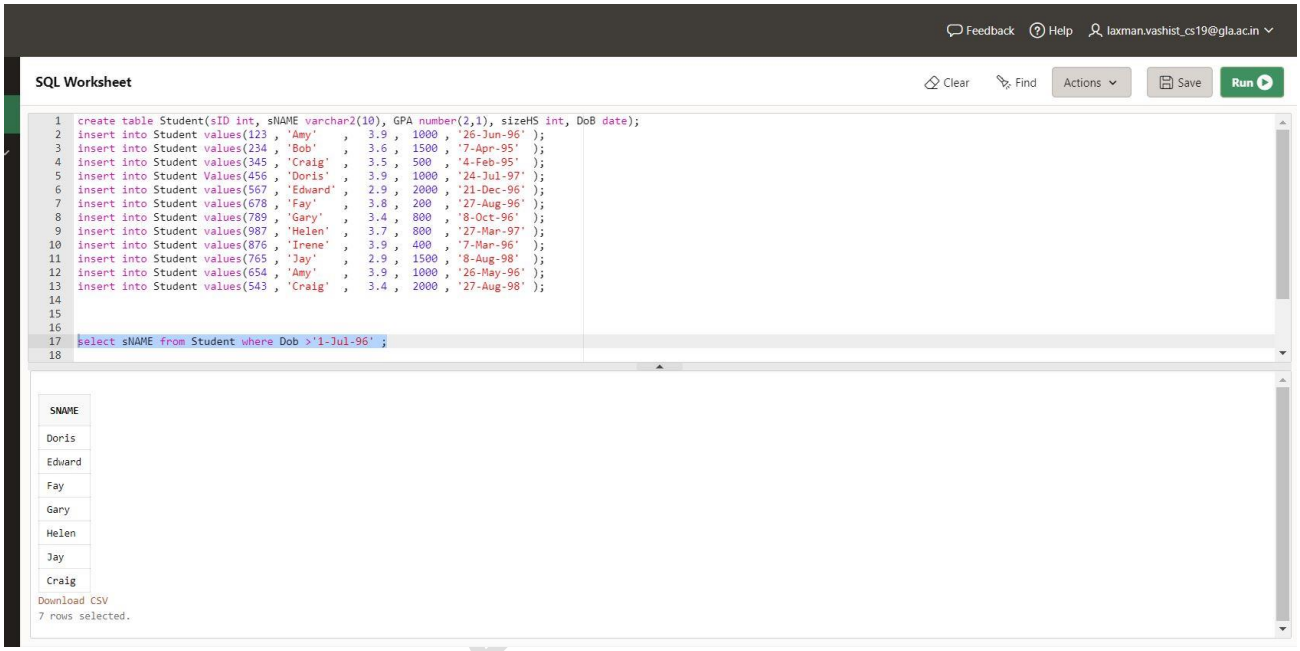
==========



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

Code & output ➔

==========



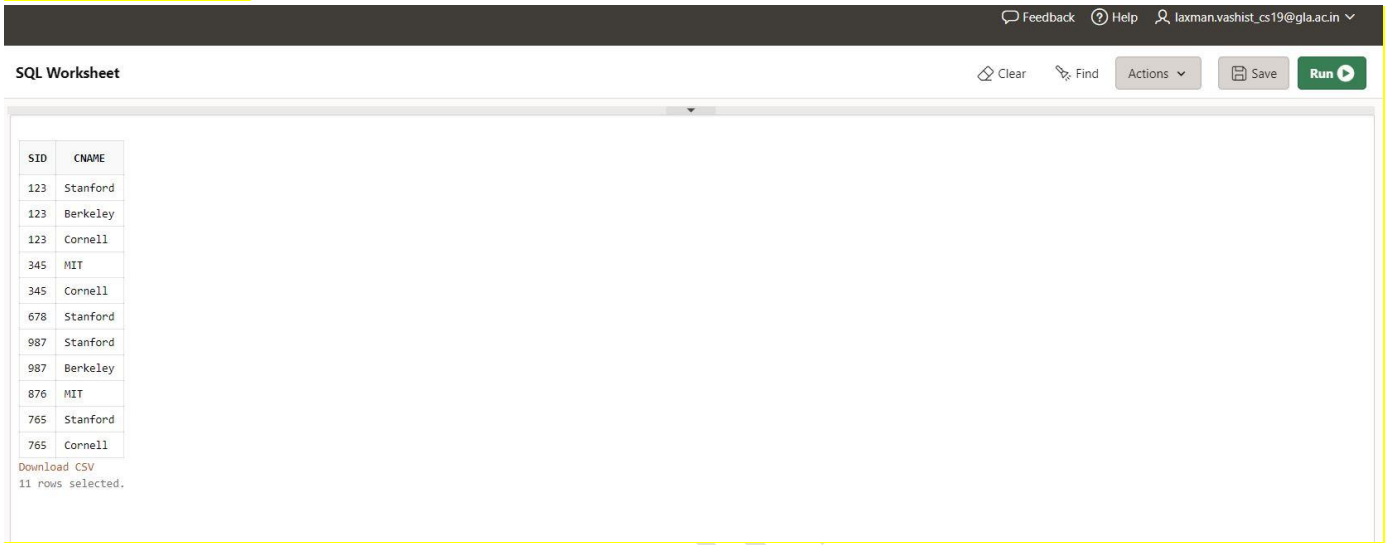
8. List the sID, cName, decision of applications that are accepted.

Code ➔

========

Output ➔

==========



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

Download CSV
11 rows selected.

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

Code➔

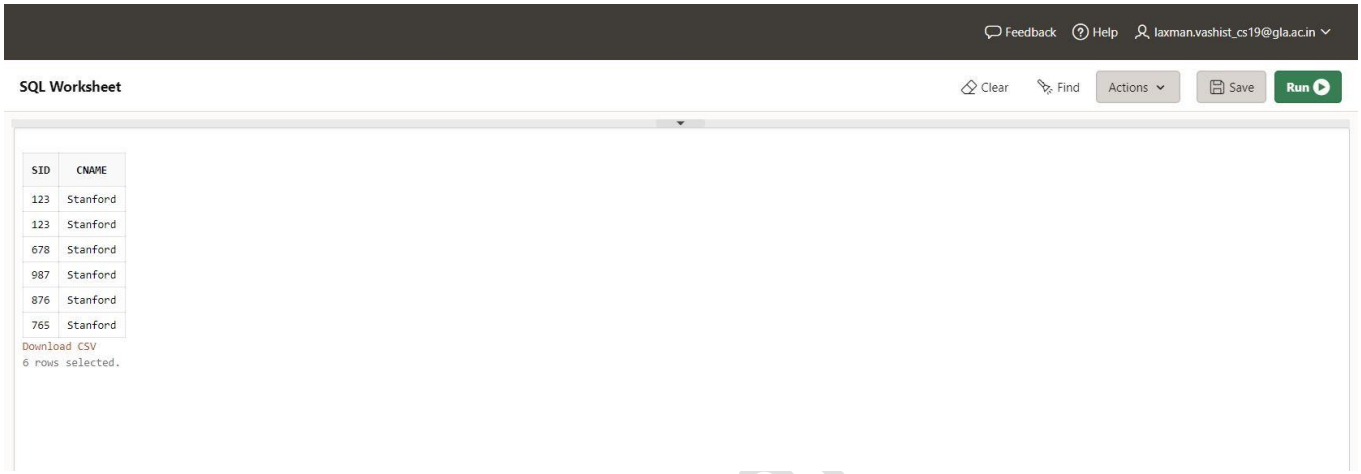
=======


```
create table Apply(sId int, cNAME varchar2(10), major varchar2(20), decision char(1));
insert into Apply values(123, 'Stanford'  , 'cs'             , 'Y' );
insert into Apply values(123, 'Stanford'  , 'EE'             , 'N' );
insert into Apply values(123, 'Berkeley'  , 'CS'             , 'Y' );
insert into Apply values(123, 'Cornell'   , 'EE'             , 'Y' );
insert into Apply values(234, 'Berkeley'  , 'Biology'        , 'N' );
insert into Apply values(345, 'MIT'       , 'Bioengineering' , 'Y' );
insert into Apply values(345, 'Cornell'   , 'Bioengineering' , 'N' );
insert into Apply values(345, 'Cornell'   , 'CS'             , 'Y' );
insert into Apply values(345, 'Corenell'  , 'EE'             , 'N' );
insert into Apply values(678, 'Stanford'  , 'History'        , 'Y' );
insert into Apply values(987, 'Stanford'  , 'CS'             , 'Y' );
insert into Apply values(987, 'Berkeley'  , 'CS'             , 'Y' );
insert into Apply values(876, 'Stanford'  , 'CS'             , 'N' );
insert into Apply values(876, 'MIT'       , 'Biology'        , 'Y' );
insert into Apply values(876, 'MIT'       , 'Marine Biology' , 'N' );
insert into Apply values(765, 'Stanford'  , 'History'        , 'Y' );
insert into Apply values(765, 'Cornell'   , 'HIstory'        , 'N' );
insert into Apply values(765, 'Cornell'   , 'psychology'     , 'Y' );
insert into Apply values(543, 'MIT'       , 'CS'             , 'N' );

select sID , cNAME  from Apply where cNAME = 'Stanford' ;
```

Output➔

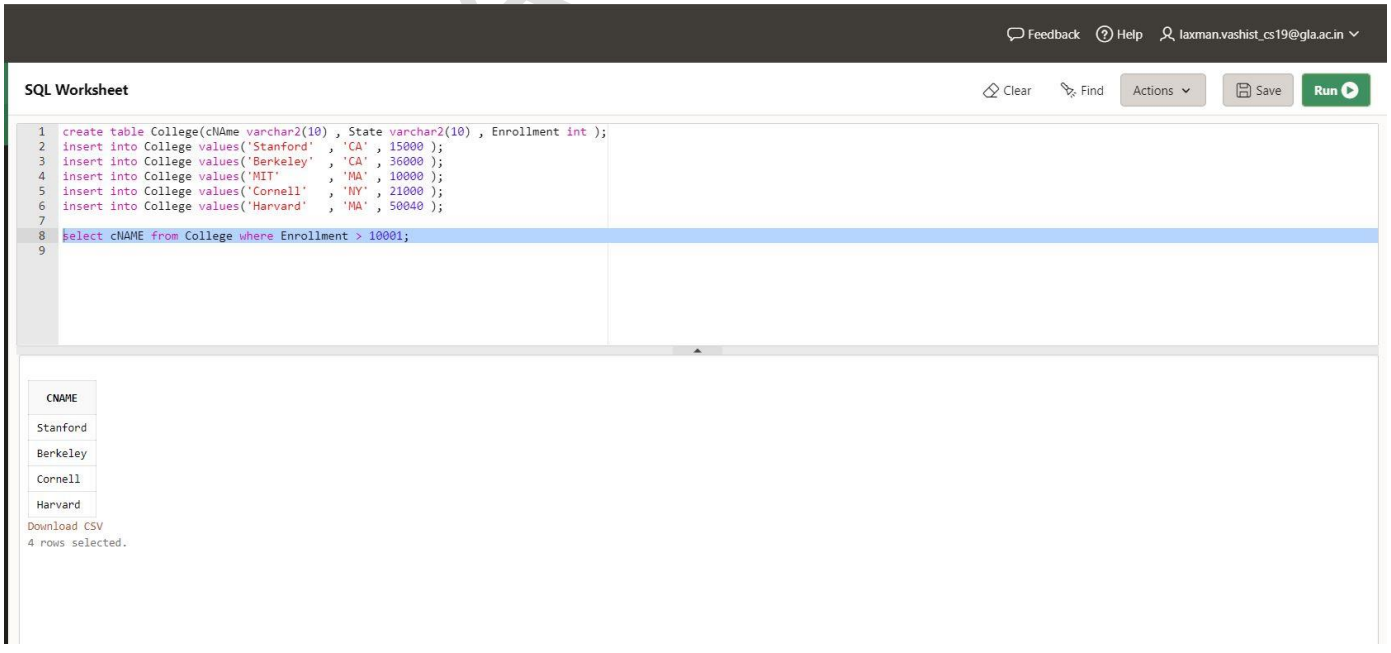
==========



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

Code & Output ➔

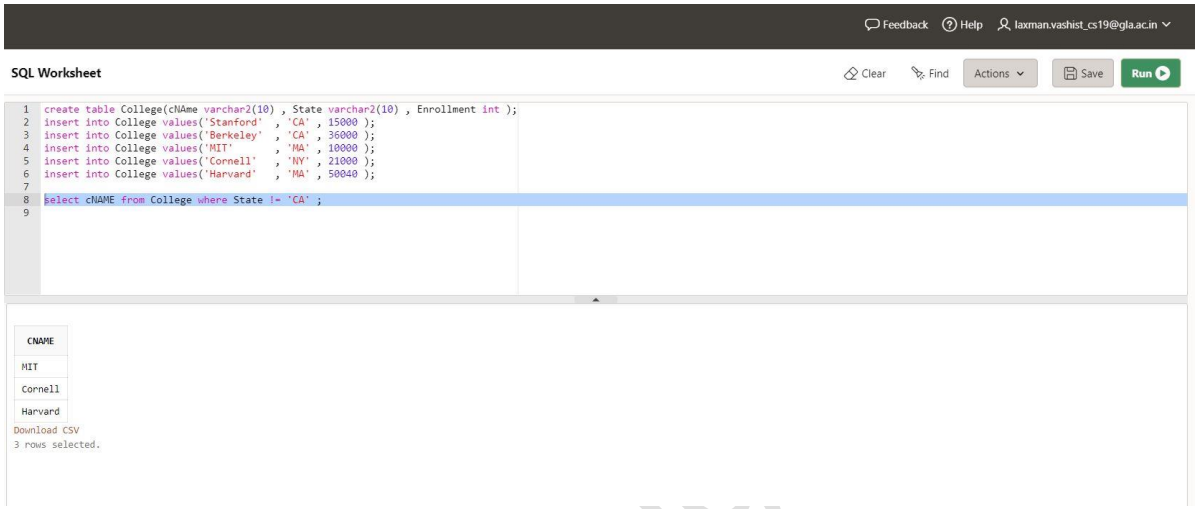
==========



11. . List the colleges not in California.

Code & Output➔

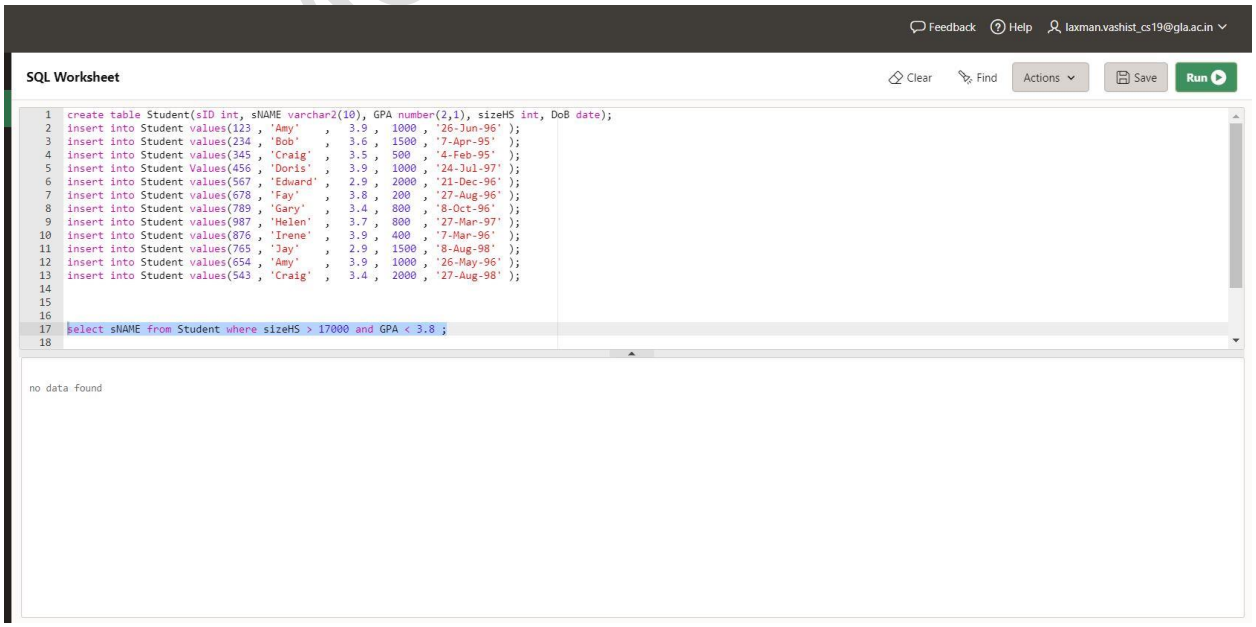
==========



12. . List names of all student who came from high school having size greater than 17000 and scored GPA less than 3.8.

Code & Output➔

==========



13. Display the description of the Student table

Code➔

=======

14. Display the details of all students.

Code ➔

=======

Feedback Help laxman.vashist_cs19@gla.ac.in

SQL Worksheet

Clear Find Actions Save Run

```
1  create table Student(sID int, sNAME varchar2(10), GPA number(2,1), sizeHS int, DoB date);
2  insert into Student values(123 , 'Amy'     ,   3.9 ,  1000 , '26-Jun-96' );
3  insert into Student values(234 , 'Bob'     ,   3.6 ,  1500 , '7-Apr-95'  );
4  insert into Student values(345 , 'Craig'   ,   3.5 ,  500  , '4-Feb-95'  );
5  insert into Student Values(456 , 'Doris'   ,   3.9 ,  1000 , '24-Jul-97' );
6  insert into Student values(567 , 'Edward'  ,   2.9 ,  2000 , '21-Dec-96' );
7  insert into Student values(678 , 'Fay'     ,   3.8 ,  200  , '27-Aug-96' );
8  insert into Student values(789 , 'Gary'    ,   3.4 ,  800  , '8-Oct-96'  );
9  insert into Student values(987 , 'Helen'   ,   3.7 ,  800  , '27-Mar-97' );
10 insert into Student values(876 , 'Irene'   ,   3.9 ,  400  , '7-Mar-96'  );
11 insert into Student values(765 , 'Jay'     ,   2.9 ,  1500 , '8-Aug-98'  );
12 insert into Student values(654 , 'Amy'     ,   3.9 ,  1000 , '26-May-96' );
13 insert into Student values(543 , 'Craig'   ,   3.4 ,  2000 , '27-Aug-98' );
14
15 select * from Student;
16
```

Feedback Help laxman.vashist_cs19@gla.ac.in

SQL Worksheet

Clear Find Actions Save Run

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.

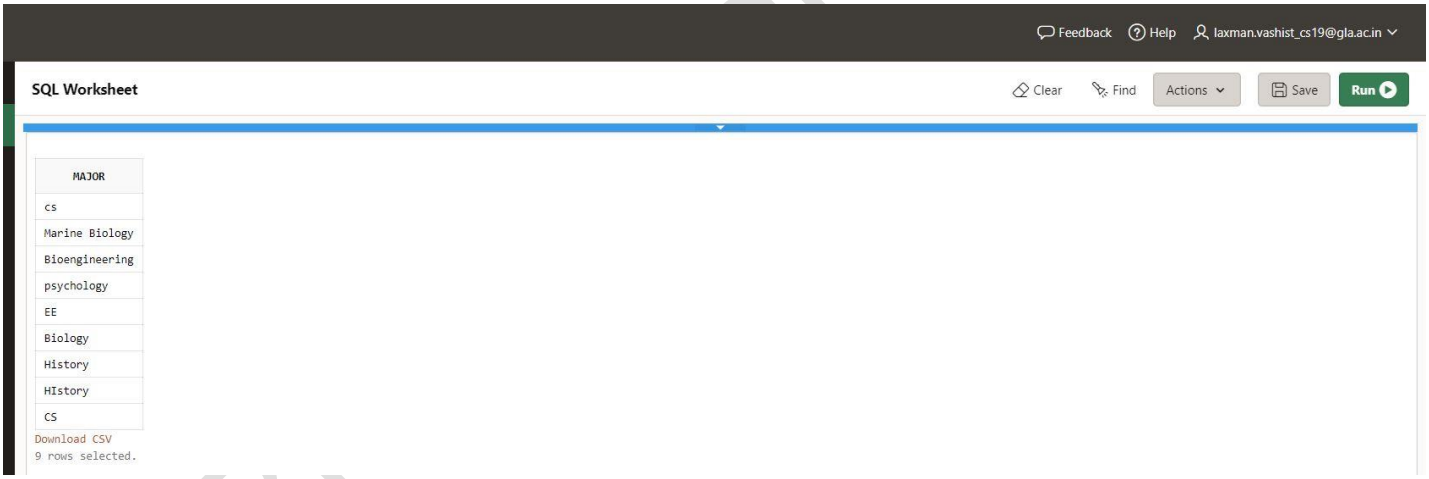
15. Display unique majors.

Code ➔

========

Output ➔

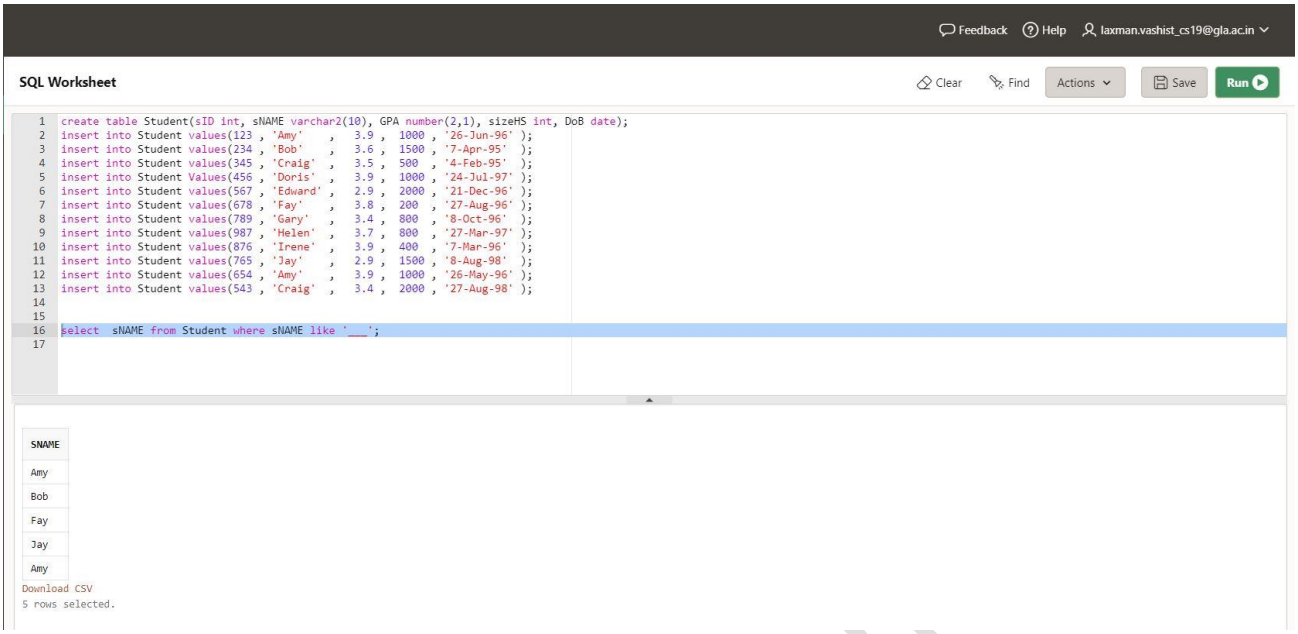
==========



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

Code & Output➔

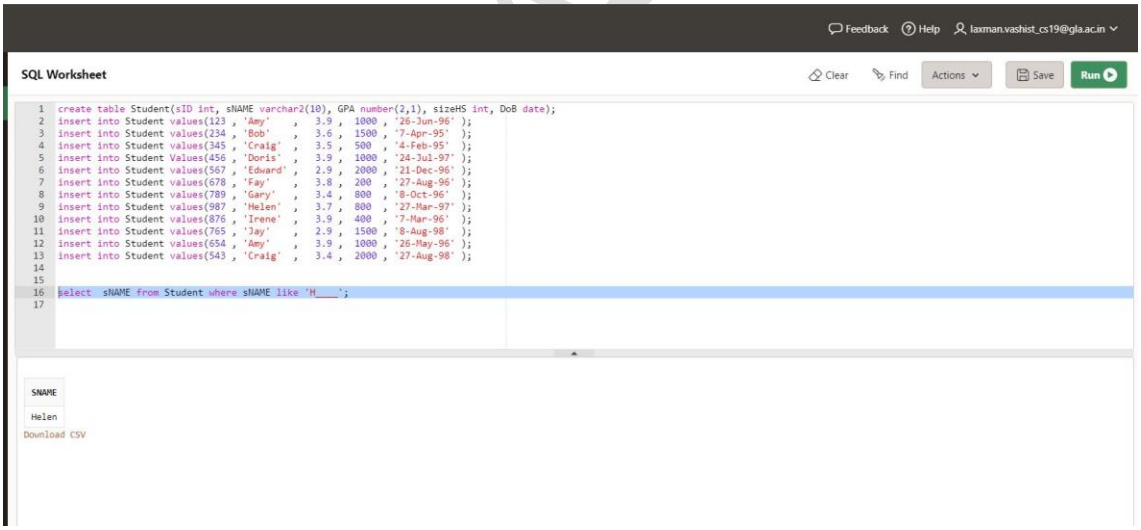
==========



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

Code & Output ➔

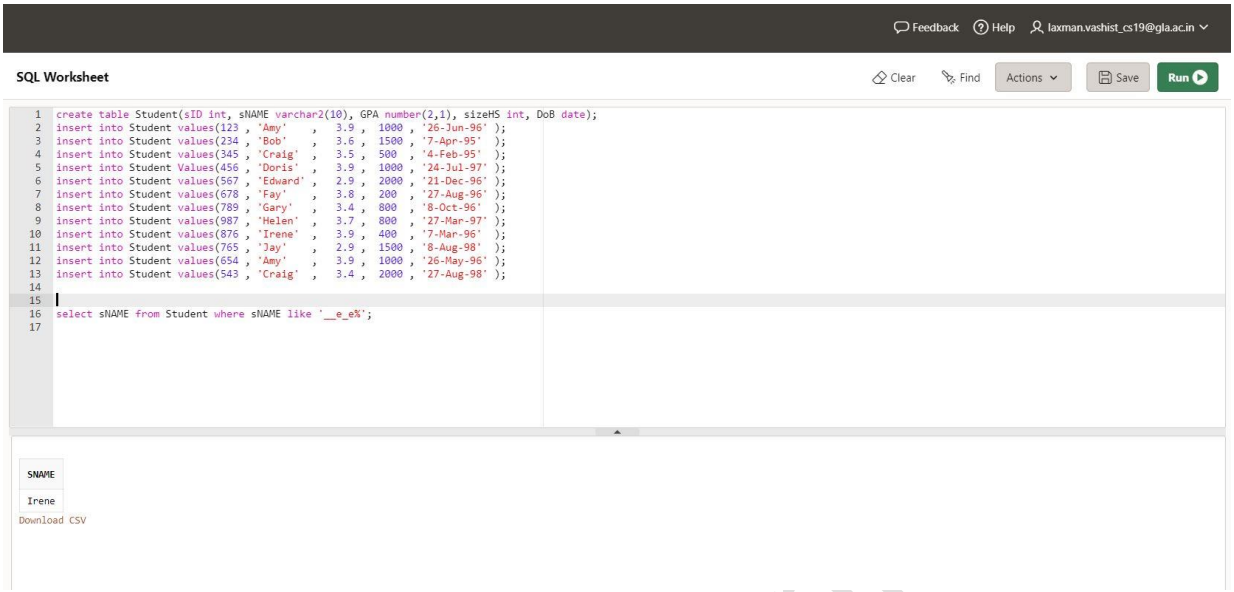
==========



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

Code & Output➔

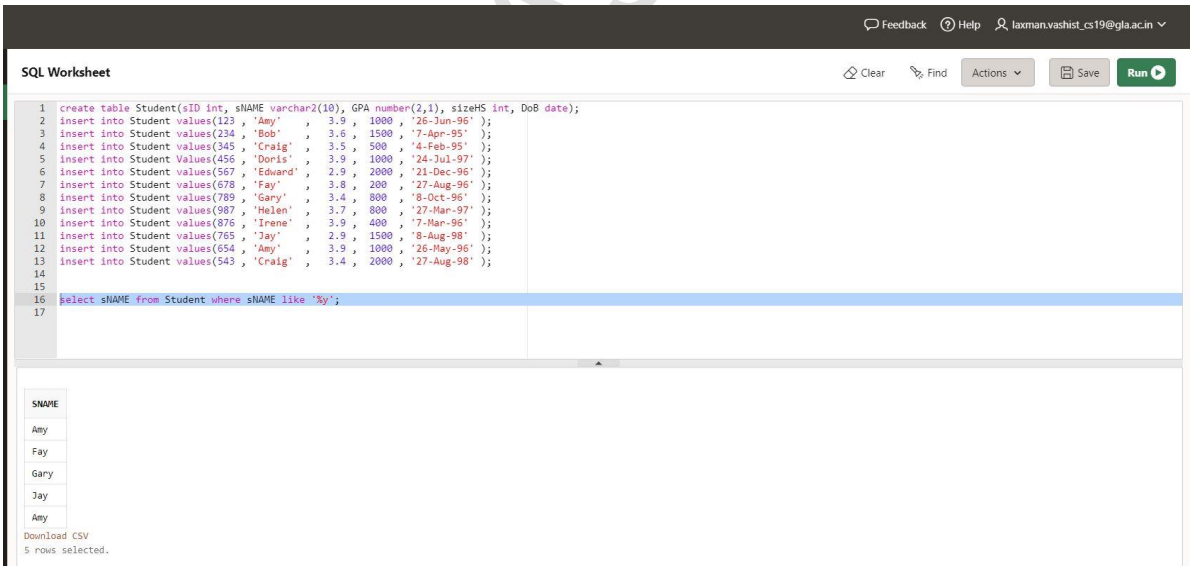
==========



19. . List the student names ending with 'y'.

Code & Output ➔

==========



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

Code➔

=======

Feedback Help laxman.vashist_cs19@gla.ac.in

SQL Worksheet

Clear Find Actions Save Run

```
1  create table Student(sID int, sNAME varchar2(10), GPA number(2,1), sizeHS int, DoB date);
2  insert into Student values(123 , 'Amy'     ,   3.9 ,  1000 , '26-Jun-96' );
3  insert into Student values(234 , 'Bob'     ,   3.6 ,  1500 , '7-Apr-95'  );
4  insert into Student values(345 , 'Craig'   ,   3.5 ,  500  , '4-Feb-95'  );
5  insert into Student Values(456 , 'Doris'   ,   3.9 ,  1000 , '24-Jul-97' );
6  insert into Student values(567 , 'Edward'  ,   2.9 ,  2000 , '21-Dec-96' );
7  insert into Student values(678 , 'Fay'     ,   3.8 ,  200  , '27-Aug-96' );
8  insert into Student values(789 , 'Gary'    ,   3.4 ,  800  , '8-Oct-96'  );
9  insert into Student values(987 , 'Helen'   ,   3.7 ,  800  , '27-Mar-97' );
10 insert into Student values(876 , 'Irene'   ,   3.9 ,  400  , '7-Mar-96'  );
11 insert into Student values(765 , 'Jay'     ,   2.9 ,  1500 , '8-Aug-98'  );
12 insert into Student values(654 , 'Amy'     ,   3.9 ,  1000 , '26-May-96' );
13 insert into Student values(543 , 'Craig'   ,   3.4 ,  2000 , '27-Aug-98' );
14
15
16 select  sNAME , GPA from Student order by GPA;
17
```

Output➔

========

Feedback Help laxman.vashist_cs19@gla.ac.in

SQL Worksheet

Clear Find Actions Save Run

SNAME	GPA
Jay	2.9
Edward	2.9
Craig	3.4
Gary	3.4
Craig	3.5
Bob	3.6
Helen	3.7
Fay	3.8
Irene	3.9
Amy	3.9
Amy	3.9
Doris	3.9

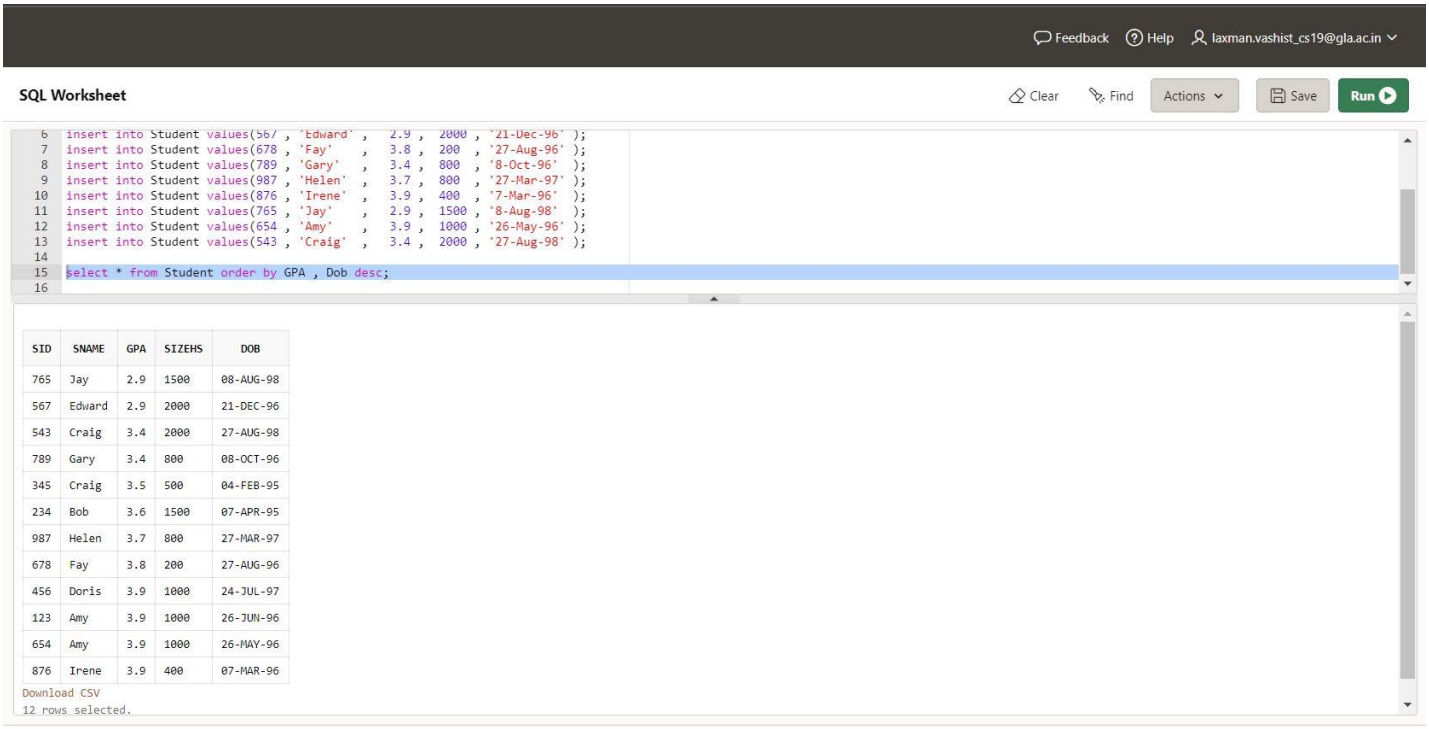
Download CSV

12 rows selected.

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

Code ➔

=======



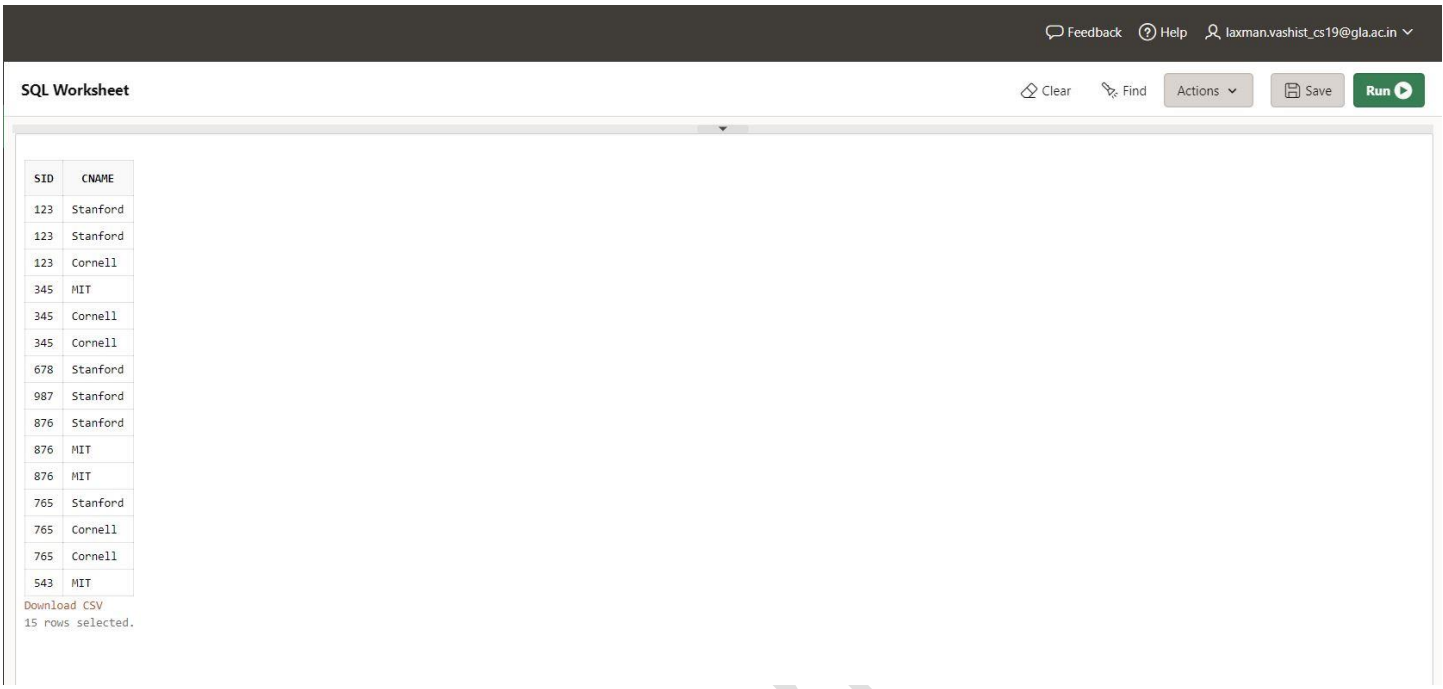
22. List the sIDs of student who apply in either 'Stanford', 'Cornell' or 'MIT' college.

Code➔

=======

Output ➔

========



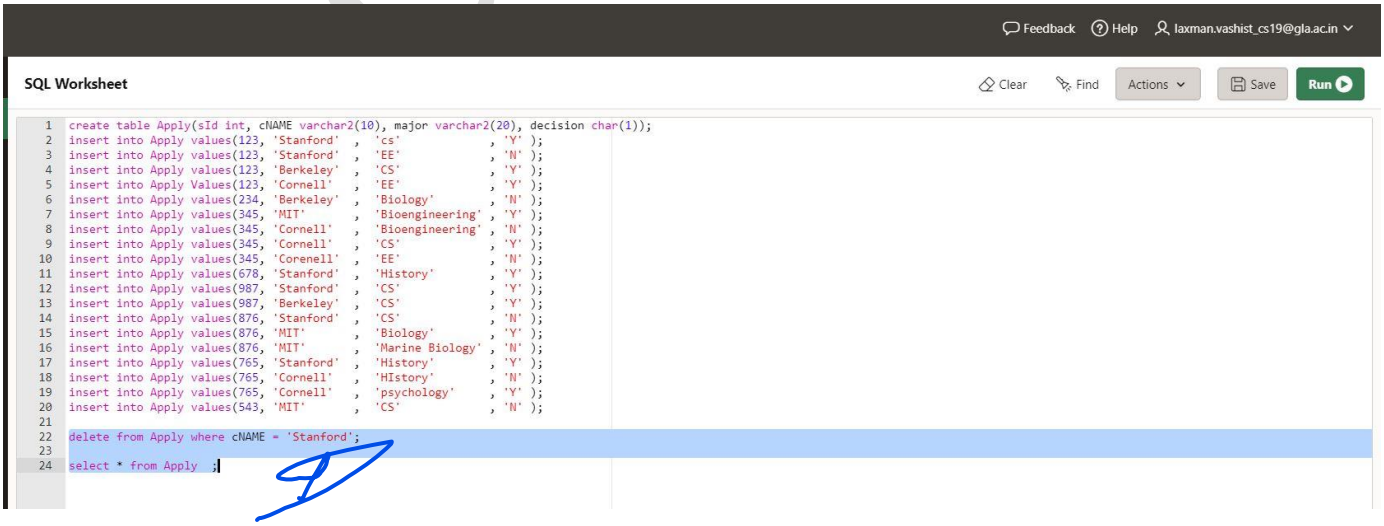
SID	CNAME
123	Stanford
123	Stanford
123	Cornell
345	MIT
345	Cornell
345	Cornell
678	Stanford
987	Stanford
876	Stanford
876	MIT
876	MIT
765	Stanford
765	Cornell
765	Cornell
543	MIT

Download CSV
15 rows selected.

23. Delete all applications filled at Stanford (Choose table wisely)

Code➔

=======



Output➔

========

Feedback Help laxman.vashist_cs19@gla.ac.in

SQL Worksheet

Clear Find Actions Save Run

SID	CNAME	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	Corenell	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.

24. Delete the college Stanford from college table.

Code➔

=======

Feedback Help laxman.vashist_cs19@gla.ac.in

SQL Worksheet

Clear Find Actions Save Run

```
1  create table College(cNAme varchar2(10) , State varchar2(10) , Enrollment int );
2  insert into College values('Stanford'  , 'CA' , 15000 );
3  insert into College values('Berkeley'  , 'CA' , 36000 );
4  insert into College values('MIT'       , 'MA' , 10000 );
5  insert into College values('Cornell'   , 'NY' , 21000 );
6  insert into College values('Harvard'   , 'MA' , 50040 );
7
8  delete  from College where cNAME = 'Stanford' ;
9
10 select * from College  ;
11
```

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

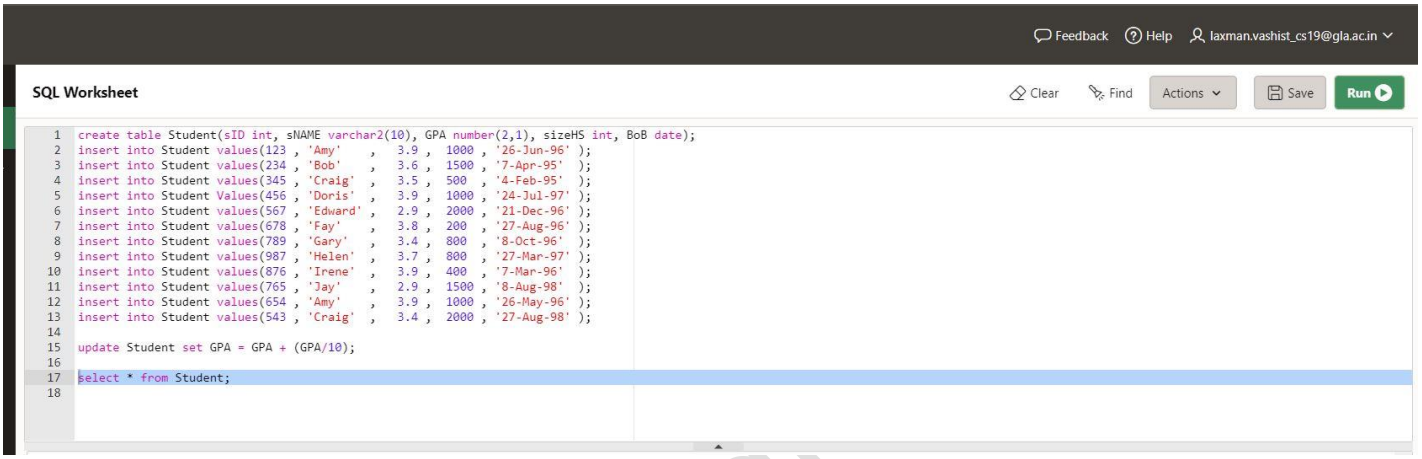
Download CSV

4 rows selected.

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

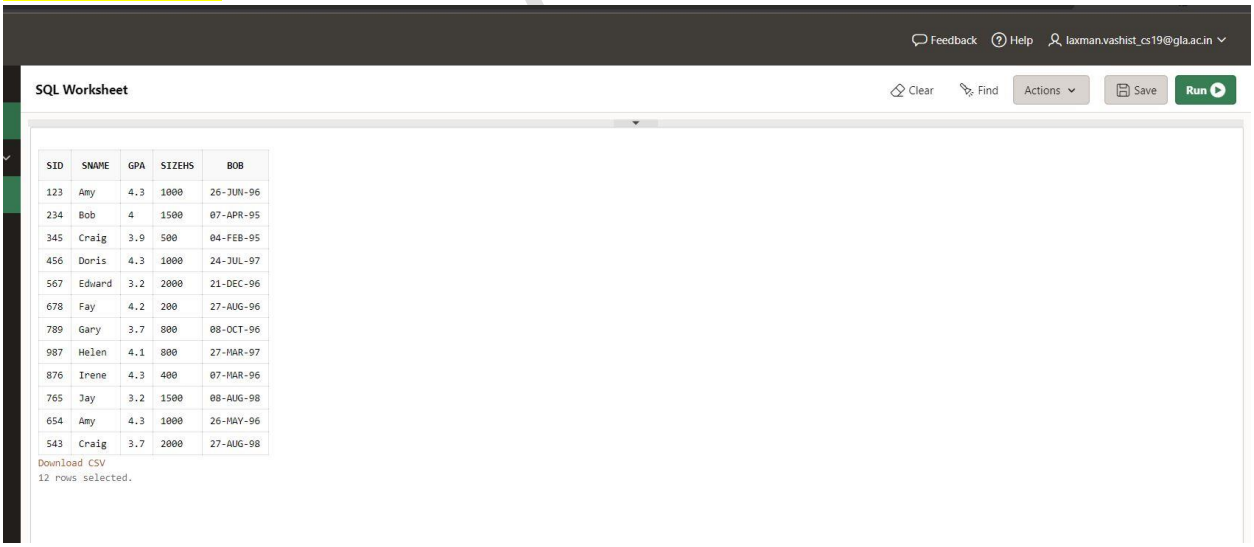
Code➔ UPDATE STUDENT SET GPA = GPA + GPA/0.1

=======



Output➔

========



26. 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.

Code➔ UPD. St. set GPA = GPA+1.5 where

========

Feedback Help laxman.vashist_cs19@gla.ac.in

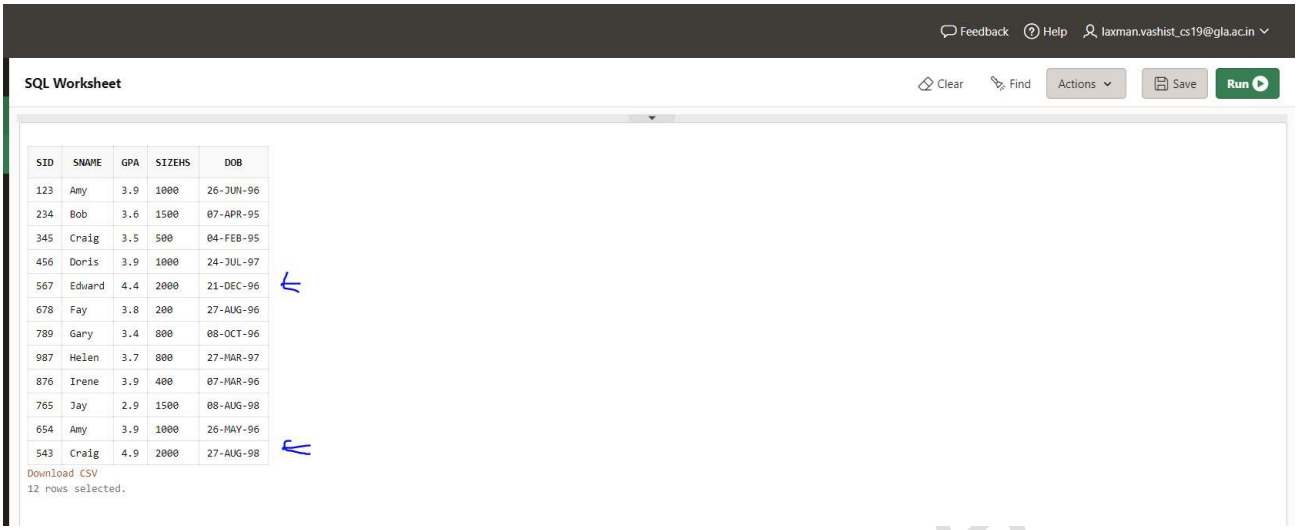
SQL Worksheet

Clear Find Actions Save Run

```
1  create table Student(sID int, sNAME varchar2(10), GPA number(2,1), sizeHS int, DoB date);
2  insert into Student values(123 , 'Amy'    ,   3.9 ,  1000 , '26-Jun-96' );
3  insert into Student values(234 , 'Bob'    ,   3.6 ,  1500 , '7-Apr-95'  );
4  insert into Student values(345 , 'Craig'  ,   3.5 ,  500  , '4-Feb-95'  );
5  insert into Student Values(456 , 'Doris'  ,   3.9 ,  1000 , '24-Jul-97' );
6  insert into Student values(567 , 'Edward' ,   2.9 ,  2000 , '21-Dec-96' );
7  insert into Student values(678 , 'Fay'    ,   3.8 ,  200  , '27-Aug-96' );
8  insert into Student values(789 , 'Gary'   ,   3.4 ,  800  , '8-Oct-96'  );
9  insert into Student values(987 , 'Helen'  ,   3.7 ,  800  , '27-Mar-97' );
10 insert into Student values(876 , 'Irene'  ,   3.9 ,  400  , '7-Mar-96'  );
11 insert into Student values(765 , 'Jay'    ,   2.9 ,  1500 , '8-Aug-98'  );
12 insert into Student values(654 , 'Amy'    ,   3.9 ,  1000 , '26-May-96' );
13 insert into Student values(543 , 'Craig'  ,   3.4 ,  2000 , '27-Aug-98' );
14
15 update Student set GPA = GPA + 1.5 where GPA <3.5 and SizeHS >1500;
16
17 select * from Student;
```

Output➔

=========



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

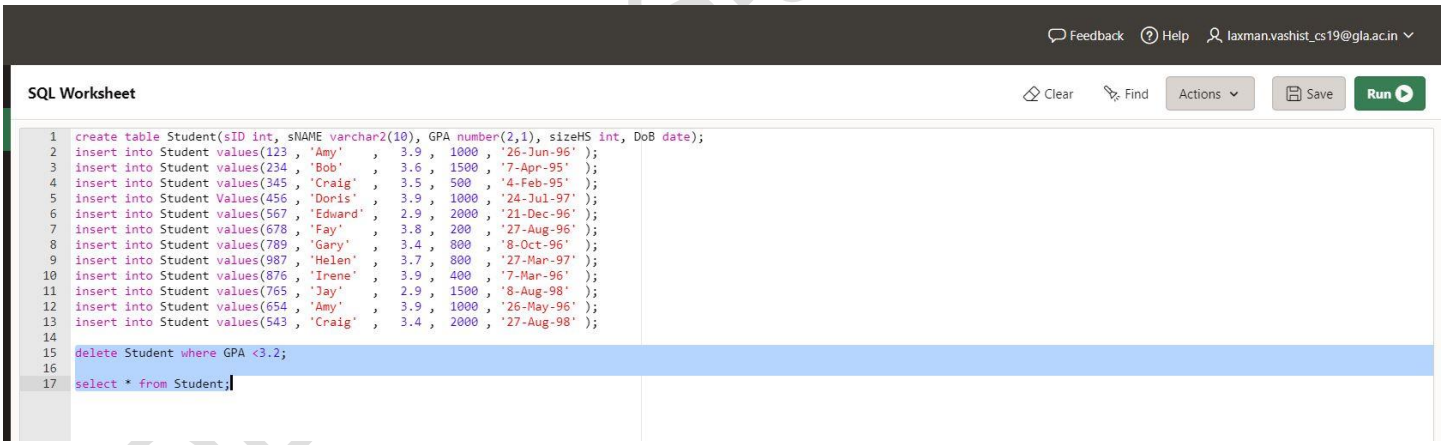
Download CSV
12 rows selected.

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

Code ➔

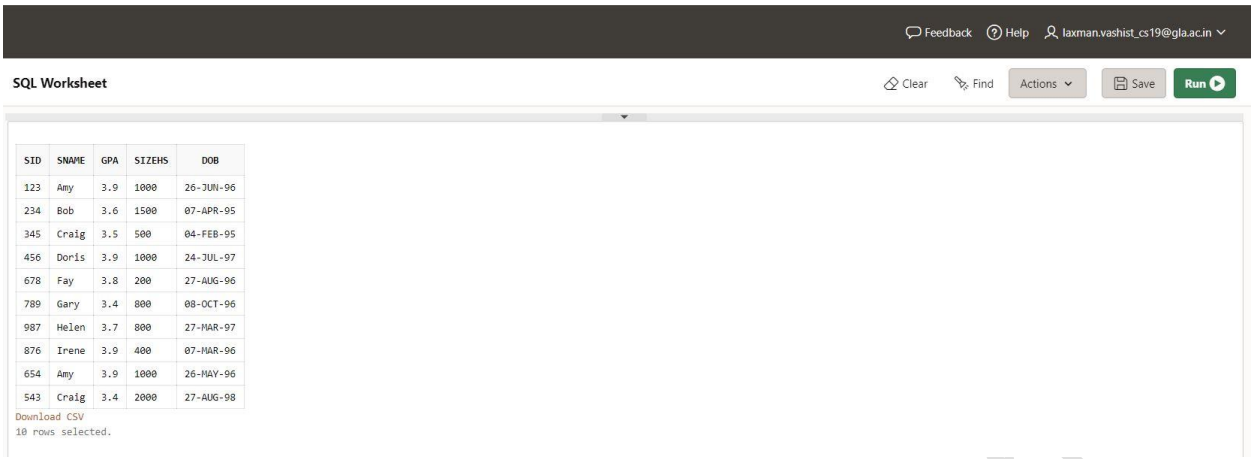
Dot . Sid from Sh . wh

=======



Output➔

========



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
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
654	Amy	3.9	1000	26-MAY-96
543	Craig	3.4	2000	27-AUG-98

Download CSV
10 rows selected.