Name

Laxman kumar Vashist

Class → BTech. 2nd Year { E }

University RollNo. -> 191500429

Class RollNo. > '37'

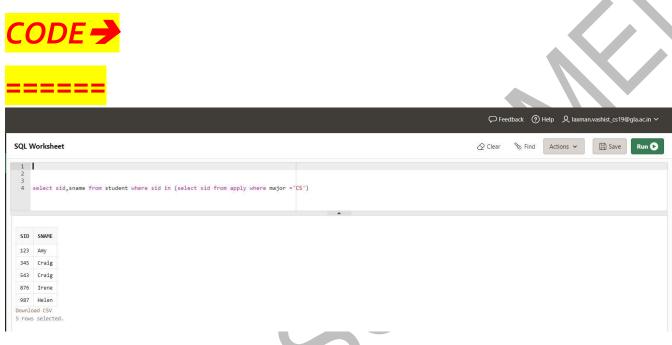
Subject Database Management

Systems Lab

Subject Code BCSC 0802

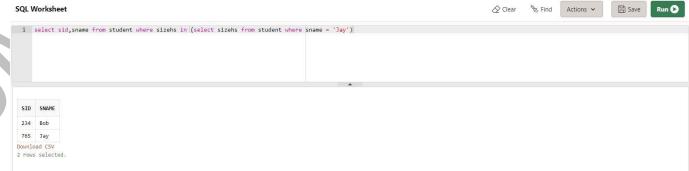
Subject Teacher → MRS. Gunjan
Bharadwaj

QUS 1 IDs and names of students who have applied to major in CS at some college.



QUS 2 Find ID and name of student having same high school size as Jay.





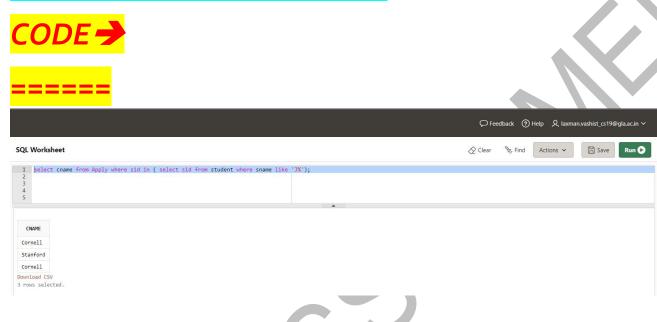
QUS 3 Find ID and name of student having same high school size as Jay but result should not include Jay.



QUS 4 Find the name of student with their GPA and Sid whose GPA not equal to GPA of Irene?



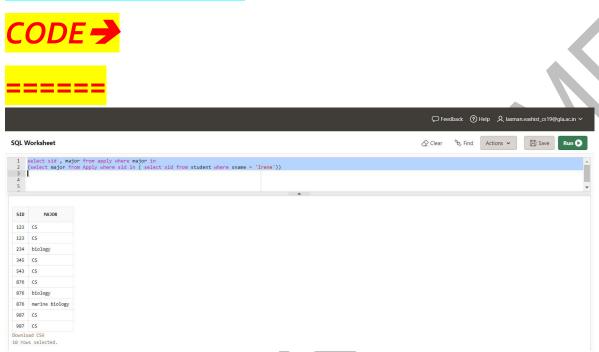
Qus 5 Find college where any student having their name started from J have applied?



Qus 6 Find all different major where Irene has applied?

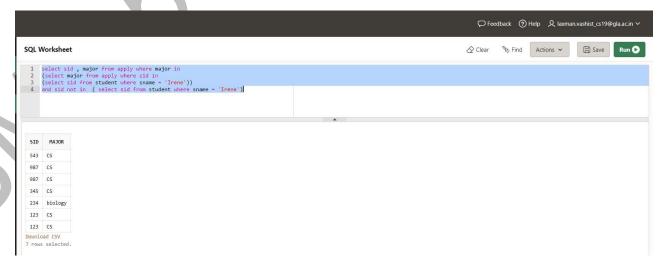


QUS 7 Find IDs of student and major who applied in any of major Irene had applied to?



QUS 8 Find IDs of student and major who applied in any of major Irene had applied to? But this time exclude Irene sID.





QUS 9 Give the number of colleges Jay applied to?

(Remember count each college once no matter if he applied to same college twice with different major).



QUS 10 Find sID of student who applied to more or same number of college where Jay has applied?

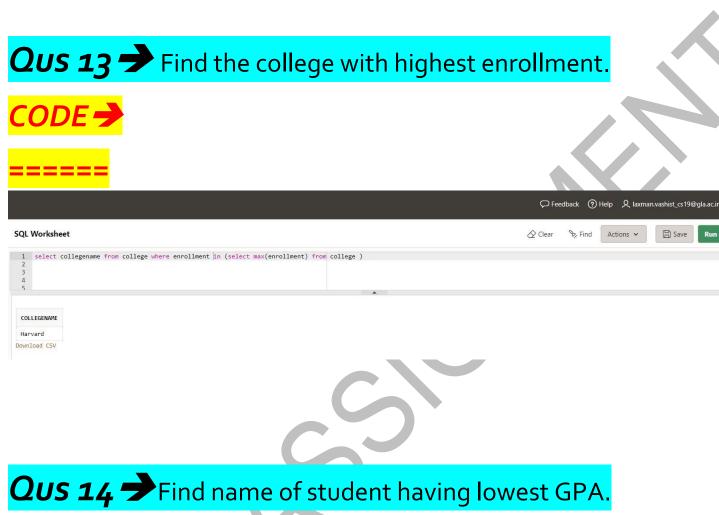


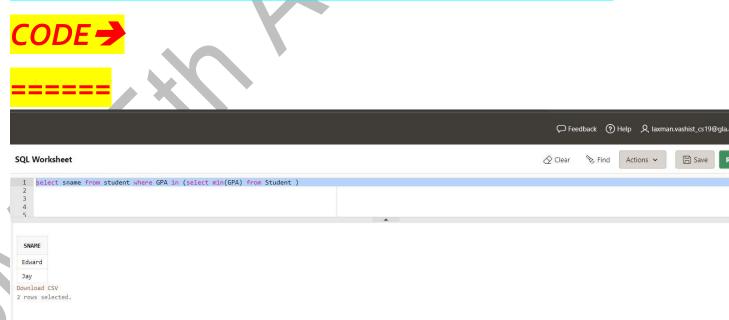
QUS 11 Find details of Students who applied to major CS but not applied to major EE? (sID 987, 876, 543) should only be include in result).



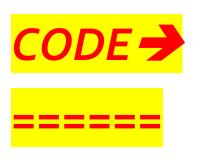
QUS 12 All colleges such that some other college is in same state. (Cornell should not be part of result as no other college in New York Hint: use exists).







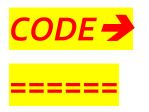
Qus 15 → Find the most popular major.

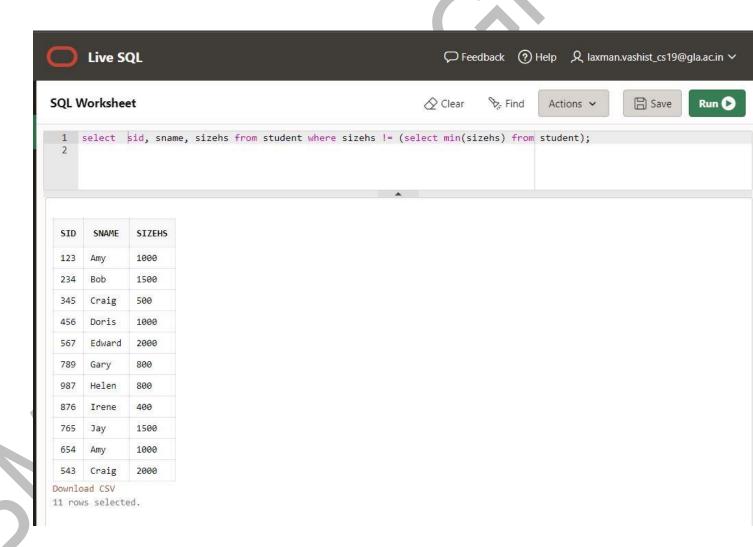




Qus $16 \rightarrow$ Find sID, sName, sizeHS of all students

NOT from smallest HS.





Qus 17 Find the name of student who applies to all the colleges where sID 987 has applied? (Hint: see Query Find IDs of student applied to all colleges).

Run the following SQL script before next query

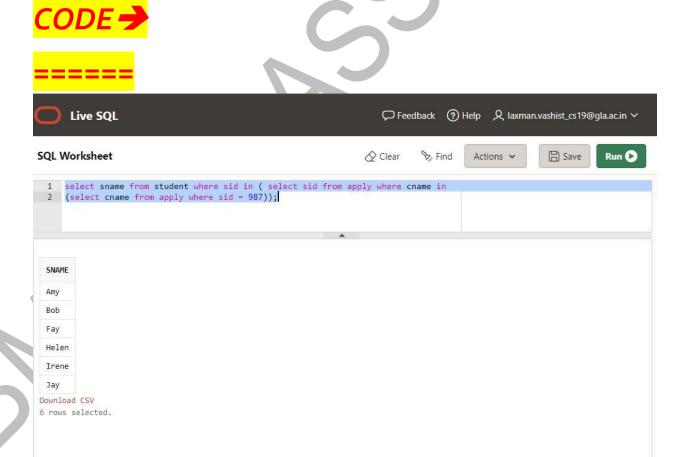
insert into Apply

select s1.sID, 'Berkeley', 'CSE', 'Y' from student s1

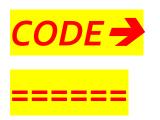
where s1.sID IN (select s.sID from student s

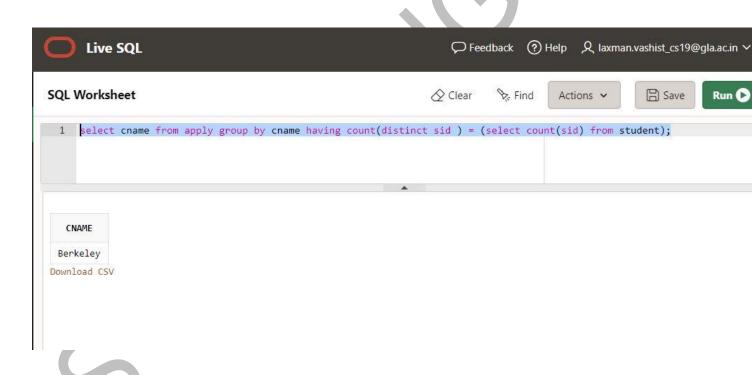
MINUS

select a.sID from apply a where a.cName = 'Berkeley');



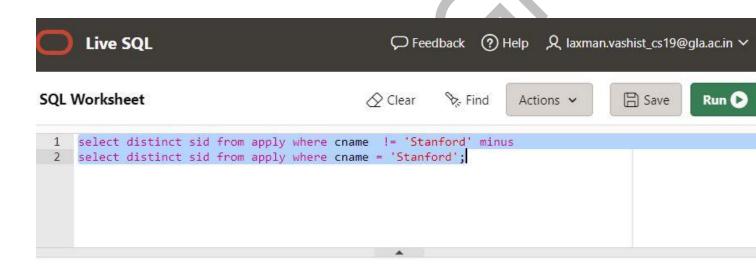
QUS 18 Find college where all the student have applied.





Qus 19 Find sid of student who have not applied to Stanford.

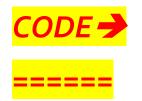


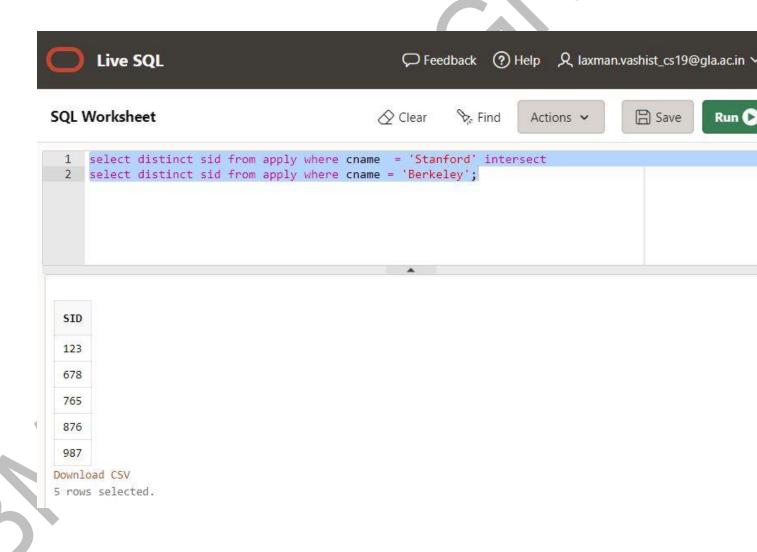


Download CSV

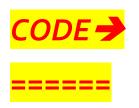
7 rows selected.

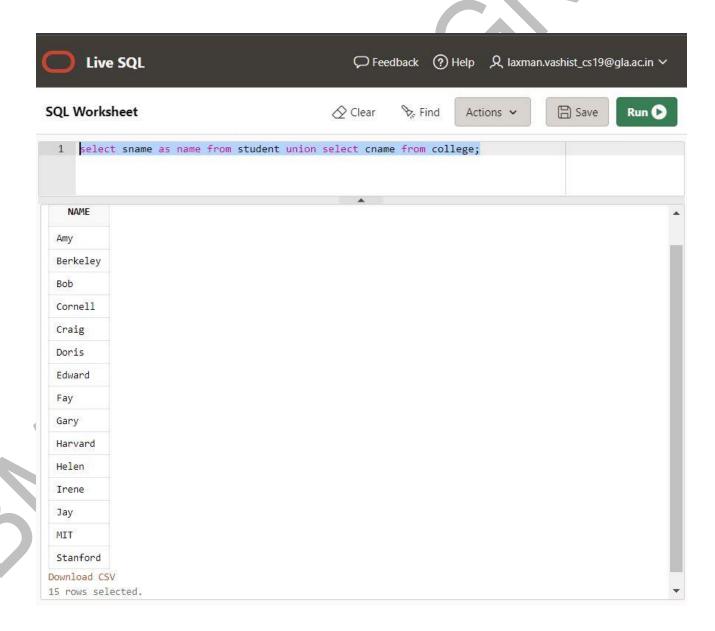
Qus 20 Find sid of Student that applied to both Stanford and Berkeley.





QUS 21 Give list of all names including all names of colleges and students.





QUS 22 Create a table ApplicationInfo having columns sID: int, sName: varchar2(10) and number_of_applications: number(2) they filed?

Populate this table with appropriate data using insert command.







SQL Worksheet











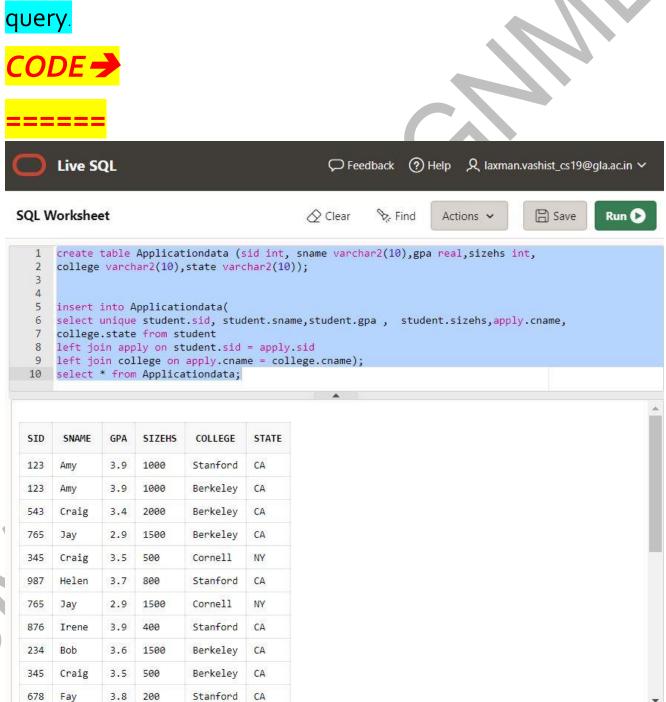
- 1 create table ApplicationInfo (sid int, sname varchar2 (10),number_of_application number(2));
- insert into ApplicationInfo (select a.sid, s.sname,count(a.sid) from student s inner join apply a on a.sid=s.sid group by a.sid,s.sname);
- 4 select * from ApplicationInfo;

SID	SNAME	NUMBER_OF_APPLICATION
123	Amy	4
234	Bob	1
345	Craig	5
456	Doris	1
543	Craig	2
567	Edward	1
654	Amy	1
678	Fay	2
765	Jay	4
789	Gary	1
876	Irene	4
987	Helen	2

Download CSV

12 rows selected.

Qus 23 Create table ApplicationData and load with ID, name and college where they applied with state of college (remember to include details of ALL students that have applied or not applied) on runtime using single query.



QUS 24 Stanford decide not to take any student who have also applied to its rival Berkeley turn their application decision to N.





