Assignment-05

Name-Ayush Mittal

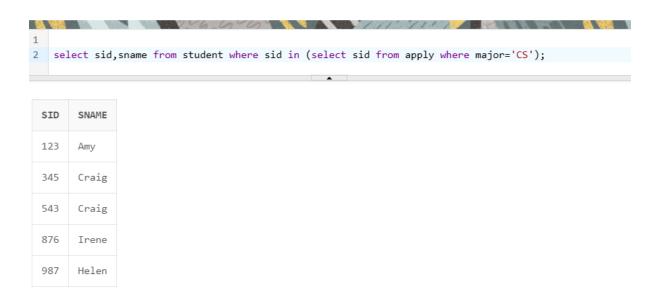
Section-EA

University Roll Number-2315800020

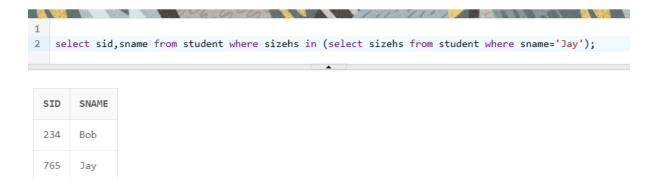
Subject-Database Management System

Subject Code-BCSC 0861

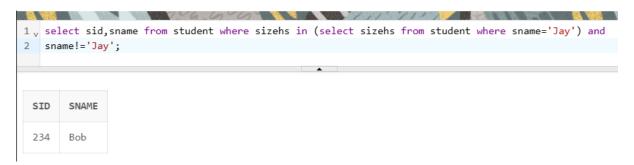
1. IDs and names of students who have applied to major in CS at some college.



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



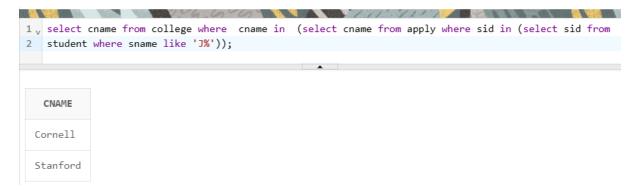
3-Find ID and name of student having the same high school size as Jay but result should not include Jay.



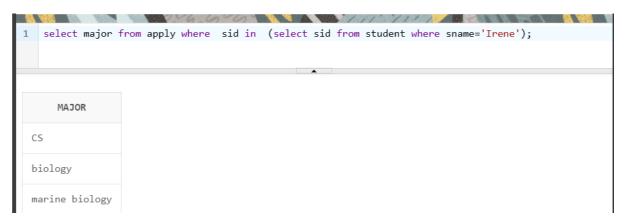
4-Find the name of student with their GPA and Sid whose GPA not equal to GPA of Irene?



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



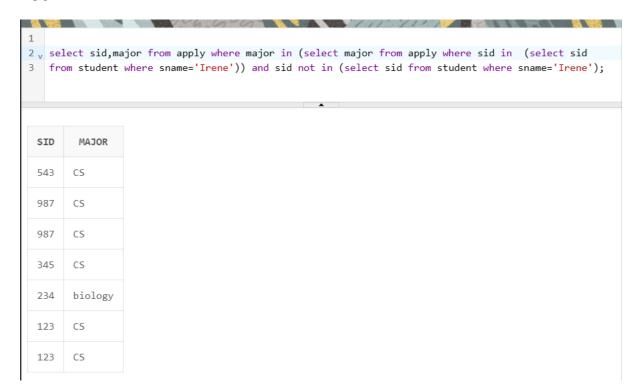
6-. Find all different major where Irene has applied?



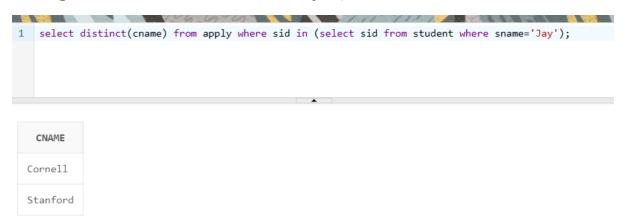
7-Find IDs of student and major who applied in any of major Irene had applied to?



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



9-Give the number of colleges Jay applied to? (Remember count each college once no matter if he applied to the same college twice with different major).

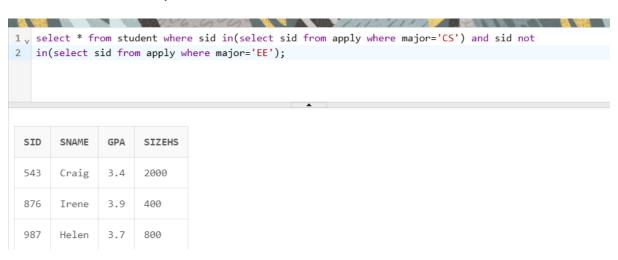


10-Find sID of student who applied to more or same number of college where Jay has applied?

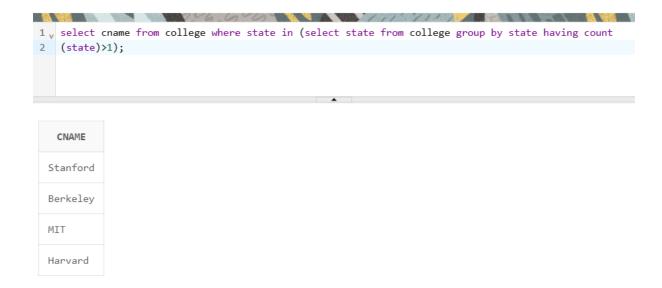
```
1 v select sid from apply group by sid having (count(cname)>=(select count(distinct cname)
2 from apply where sid in (select sid from student where sname='Jay')));

SID
123
345
765
876
987
```

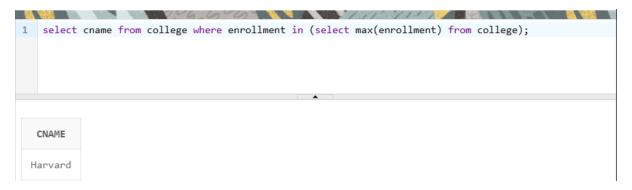
11-Find details of Students who applied to major CS but not applied to major EE? (sID 987, 876, 543 should only be include in result).



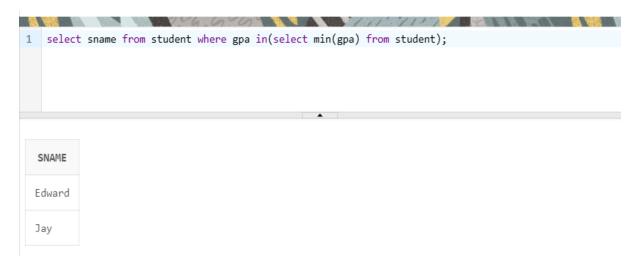
12-All colleges such that some other college is in the same state. (Cornell should not be part of the result as no other college in New York Hint: use exists).



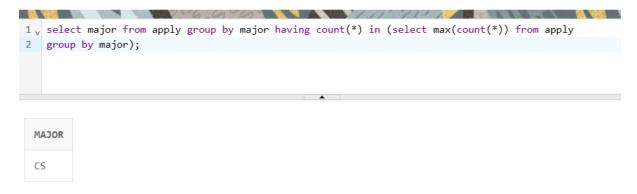
13-Find the college with the highest enrollment.



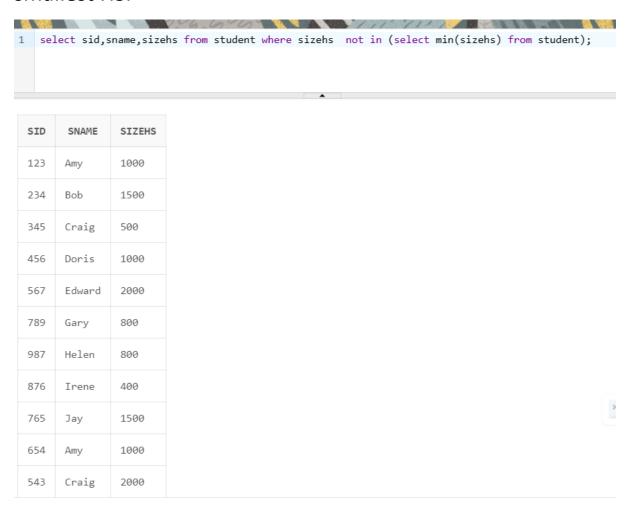
14-. Find the name of student having the lowest GPA.



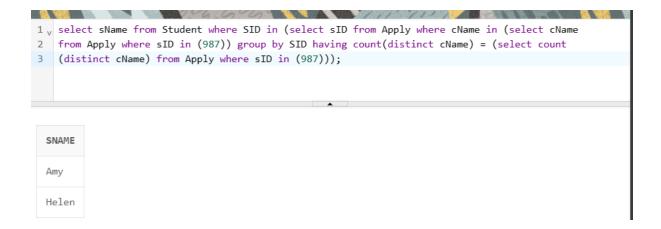
15-Find the most popular major.



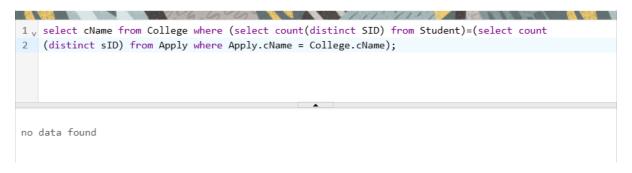
16-Find sID, sName, sizeHS of all students NOT from the smallest HS.



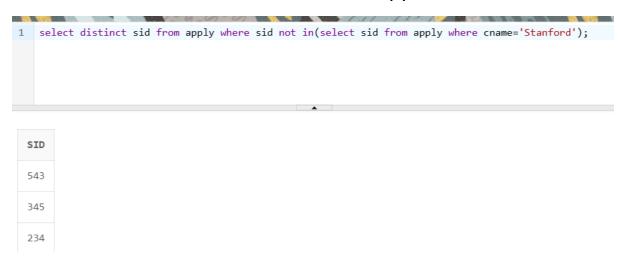
17-Find the name of the student who applies to all the colleges where sID 987 has applied?(Hint: see Query Find IDs of student applied to all colleges).



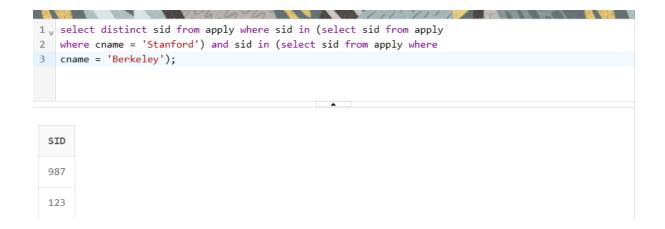
18-Find the college where all the students have applied.



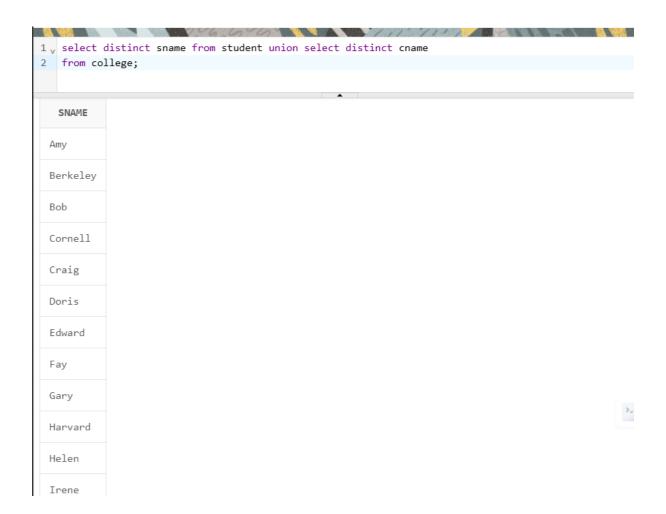
19-Find sid of students who have not applied to Stanford.



20-Find sid of Students that applied to both Stanford and Berkeley.



21-Give a list of all names including all names of colleges and students.



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 the insert command.

```
1 v create table ApplicationInfo (sID INT,sName
2 VARCHAR2(10),number_of_applications NUMBER(2));

Table created.
```

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

```
1 v create table applicationdata as select s.sid, s.sname, a.cname as
college, c.state from student s left join apply a on s.sid = a.sid left join
college c on a.cname = c.cname;

Table created.
```

24-Stanford decides not to take any student who has also applied to its rival Berkeley turn their application decision to N.

```
1 v update apply set decision = 'N' where cname = 'Stanford' and sid in (select sid from apply where cname = 'Berkeley');
```

3 row(s) updated.

25-Delete applications that are filed to the city 'New York'.

```
1 v delete from apply where cname in (select cname from college where state = 'NY');
6 row(s) deleted.
```