

## DBMS ASSIGNMENT (5) (DATABASE MANAGEMENT SYSTEM)

**NAME: Khushal Agarwal** 

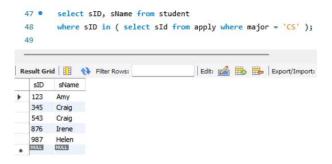
**SECTION: A** 

**CLASS ROLL NO: 29** 

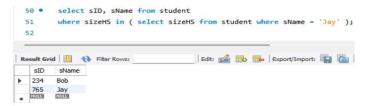
**UNIVERSITY ROLL NO: 201500340** 

## Write SQL queries for the following:

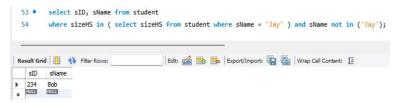
1. IDs and names of students who have applied to major in CS at some college.



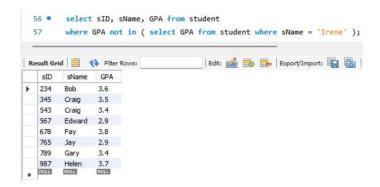
2. Find ID and name of student having same high school size as Jay.



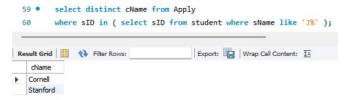
3. Find ID and name of student having same high school size as Jay but result should not include Jay.



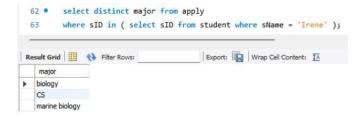
4. Find the name of student with their GPA and Sid whose GPA not equal to GPA of Irene?



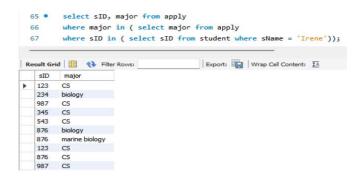
5. Find college where any student having their name started from J have applied?



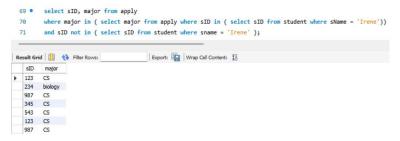
6. Find all different major where Irene has applied?



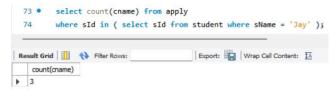
7. Find IDs of student and major who applied in any of major Irene had applied to?



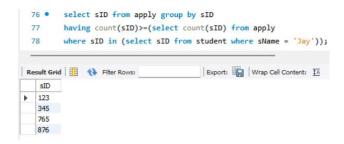
8. Find IDs of student and major who applied in any of major Irene had applied to? But this time exclude Irene sID from the list.



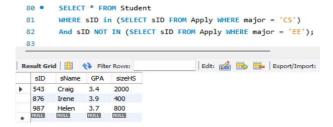
9. Give the number of colleges Jay applied to? (Remember count each college once no matter if he applied to same college twice with different major)



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



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).



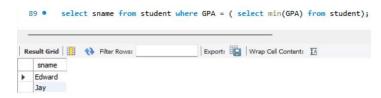
12. All colleges such that some other college is in same state. (Cornell should not be part of result as no other college in New York Hint: use exists)



13. Find the college with highest enrolment.



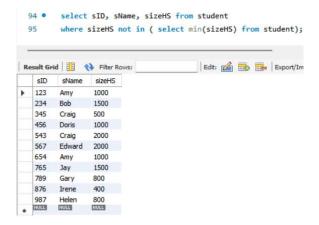
14. Find name of student having lowest GPA.



15. Find the most popular major.

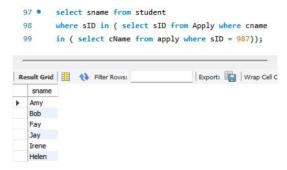
```
91 • select major from apply group by major having count(major)
92 in (select max(count(major)) from apply group by major);
```

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



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)



18. Find college where all the student have applied. For next three queries you are expected to solve using without joins and IN operators.

```
102 • SELECT CName
103 FROM Apply
104 INNER JOIN Student
105 ON Student.sID = Apply.sID
106 GROUP BY Apply.cName
107 HAVING COUNT(*) = (SELECT COUNT(*) FROM Student);
```

19. Find sID of student who have not applied to Stanford.

