HIVE LAB Assignment

Student

sID	sName	GPA	sizeHS
123	Amy	3.9	1000
234	Bob	3.6	1500
345	Craig	3.5	500
456	Doris	3.9	1000
567	Edward	2.9	2000
678	Fay	3.8	200
789	Gary	3.4	800
987	Helen	3.7	800
876	Irene	3.9	400
765	Jay	2.9	1500
654	Amy	3.9	1000
543	Craig	3.4	2000

College

cName	state	enrollment
Stanford	CA	15000
Berkeley	CA	36000
MIT	MA	10000
Cornell	NY	21000
Harvard	MA	50040

Apply

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	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

Solve the following:

Q1. Find number of students having GPA>3.4 and coming from high school having size>1000.

Q2. Give state and number of colleges of a state that has more than 1 college.

Q3. Find how many applications are filed by each student. [*Hint: use left join as we need information about all 12 students here. If they applied no where than show zero in front of them*]

Q4. Find how many students applied to 'marine biology'.

Q5. Find how many applications were rejected and accepted by the colleges.

Q6. Find how many students applied to a particular major. (show count(sid) as No_of_applications).

Q7. Give the name and no of applications of all those colleges which receives applications from 3 or more students.

Q8. Find maximum GPA, Average GPA, and minimum GPA among applicants of each college. (i.e. *say sID 123, 324 and 987 had applied to Berkley then compute and display max GPA among these three*)

Q9. Find how many student have same GPA among all students. (*provide this frequency in two column table as GPA 3.9 is 4 times, GPA 2.9 is 2 times*)

Q10. Find how many student have their name started from A, B or C