Using the above relational schema for the College Applications database, write relational algebra expressions that perform the following:

1. List the names of the students that applied to the CS department at MIT.

Collegeapplied<-πsName((σcName=’MIT’Apply)⋈sID.Student)

majorapplied<-πsName((σcName=’CS’major)⋈sID.Student)

πsName((Collegeapplied∩majorapplied)⋈sID.Student)

1. List the majors and corresponding minimum GPAs at OSU.

πmajor,minGPA(σcName=’OSU’MinimumGPA)

1. For students with GPA’s higher than the minimum requirements for the major they applied for, give the student’s name, college name and major.

πsName,cName,Major()

1. List the sIds of all students who were accepted to a CS major at a college with enrollment over 25,000.
2. List the names and ids of the students that applied to both OSU and to MIT.

1. List the names and ids of the students that applied to OSU but did not apply to U of O.
2. List the names of all students who applied to two different schools.