Exercise 2

A)

STUDENT

course	name	sid
BE	Anne	21333
BE	Dave	21876
BSc	John	21531
BSc	Tim	21623

MARK

stude	subj	mark
21333	1011	74
21333	1021	70
21333	2011	68
21531	1011	94
21531	1021	90
21623	1011	50

Question 1

Get the student ids of the students who got more than 70 marks in the subject 1011.

Question 2

Get the names and subject codes for which the students got more than 70 marks in the subject.

B) Consider the following relational schemas:

author (<u>authorID</u>, firstName, lastName)
authorPub (<u>authorID, pubID</u>, position)
book (<u>bookID</u>, title, month, year, authorID)
pub (<u>pubID</u>, ptitle, bookID)

Question 3

Find the name of all authors who are book editors.

Question 4

Find the name of all authors who are not book editors.

Question 5

Find the name of all authors who have at least one publication in the database.

Question 6

Find the name of the authors authored a pub that was published in July.

Question 7

Find the name of all authors who are book editors but do not have any publication in the database.

C) Consider the following relational schemas:

Student (<u>studentID</u>, name, age, gender)

Course (<u>courseID</u>, courseName, faculty)

Enrolment (<u>courseID, studentID</u>)

JobRequirement (job, <u>courseID</u>)

Question 8

Find the name of female students who have enrolled in at least one course required by the "designer" job.

Question 9

Find the name of students who have enrolled in all the courses needed by the "designer" job and never enrolled in any courses offered by the "law" faculty. (You can treat student as unique attribute, i.e., there are no duplicate names for any pair of distinct student ids)

Question 10

Find the name of courses in which the students are all male students or all female students. (You can treat course as unique attribute, i.e., there are no duplicate names for any pair of distinct course ids)