1. Specify all the relationships among the records of the database shown below.

Hints:

- A relationship, in the context of databases, is defined as a situation that exists between two tables.
- Example 1: STUDENTs take SECTIONs
- Example 2: SECTIONs are of specific COURSEs

STUDENT

Name	Student_number	Class	Major
Smith	17	1	CS
Brown	8	2	CS

COURSE

Course_name	Course_number	Credit_hours	Department
Intro to Computer Science	CS1310	4	CS
Data Structures	CS3320	4	CS
Discrete Mathematics	MATH2410	3	MATH
Database	CS3380	3	CS

SECTION

Section_identifier	Course_number	Semester	Year	Instructor
85	MATH2410	Fall	07	King
92	CS1310	Fall	07	Anderson
102	CS3320	Spring	80	Knuth
112	MATH2410	Fall	80	Chang
119	CS1310	Fall	80	Anderson
135	CS3380	Fall	80	Stone

GRADE_REPORT

Student_number	Section_identifier	Grade
17	112	В
17	119	С
8	85	Α
8	92	Α
8	102	В
8	135	Α

PREREQUISITE

Course_number	Prerequisite_number
CS3380	CS3320
CS3380	MATH2410
CS3320	CS1310

- 2. Suppose you're designing a database for an online bookstore (a simplified version of Amazon).
- List all entities that you can think of (at least 5, the more the better) in this mini-world.
- List 10 facts/limitations in this mini-world that you must follow when designing the database. For example, a book has one and only one ISBN number, a customer can place multiple orders.