HW#8: NoSQL & MongoDB

1) You're creating a database to contain information about students in a class (name and ID), and class projects done in pairs (two students and a project title). Should you use the relational model or MongoDB? Please justify your answer

- The relational model is more appropriate because the database doesn't contain complicated data.

2) You're creating a database to contain information about students in a class (name and ID) and class projects. Projects may include any combination of students; they have a title and optional additional information such as materials, approvals, and milestones. Should you use the relational model or MongoDB? Please justify your answer.

- MongoDB is more appropriate because the database contains complicated data and it's allows storing data in JSON format which it's easier to manage.

3) You're creating a database to contain a set of sensor measurements from a two-dimensional grid. Each measurement is a time-sequence of readings, and each reading contains ten labeled values. Should you use the relational model or MongoDB? Please justify your answer.

- MongoDB is more appropriate because NoSQL allows storing data without a predefined schema and reading ten labeled values is easier in JSON format.

4) Choose one of the following applications.
Propose an appropriate Relational Model or MongoDB database schema.

Ecommerce

Users	
name	String
email	String
password	String
userId	String

Product	
name	String
description	String
price	Double
productId	String

Cart	
userId	String
products	Product[]

Order	
userId	String
products	Product[]
totalPrice	Double
address	String
status	String