ICS 311-51 Database Management Systems Step #1

Description: The application that we proposed is named Medications. This application is used to store medical information about medications. Each medication will correlate with a unique ID, and store information such as generic name, brand name, medicational class, main purpose, upper body side effects, lower body side effects, year of approval, prescription quantity in US, basic introduction, and linked URL to learn more. This application can be used to learn more information about medications, for medical professionals, middle-schoolers, high-schoolers, college-students, or the general adult population.

Tables: Tables will be medicationInfo, medicationUseInfo, sideEffects, relatedInformation, and medicationDosage.

medicationInfo	medicationUseInfo	sideEffects	relatedInformation	medicationDosage
medicationID	medicationID	medicationID	medicationID	medicationID
genericName	medicationClass	upperBody	yearOfApproval	avgDose
brandName	mainPurpose	lowerBody	prescriptionQuantity	doseRoute
			introduction	
			URL	

Table attributes:
- **medicationInfo:** medicationID, genericName, brandName
- **medicationUseInfo:** medicationID, medicationClass, mainPurpose
- **sideEffects:** medicationID, upperBody, lowerBody
- **relatedInformation:** medicationID, yearOfApproval, prescriptionQuantity, introduction, URL
- **medicationDosage:** medicationID, avgDose, doseRoute

Five scenarios:
1. Select all medications in a specific medication class
2. Select all medications in approved in a specific year
3. Select all information of a medication named 'xxx'
4. Select all information of a medication where its main purpose treats 'xxx'
5. Select all medications where prescribed quantity exceeds '###'