* You are a small database consulting company specializing in developing

databases for the medical industry. You have just been awarded the contract to develop a data model for a database application system for a mid-size health insurance company to keep track of health claims including patient information, provider(doctor) information, information about patient visits to their doctor as well as prescription drugs prescribed to patients.

* Information such as patient name, address, phone, email etc. are needed as well as who each patient’s primary care doctor is, their insurance ID number and insurance company name. We also want information on each doctor such as their specialty and what hospitals they are affiliated with as well as their phone, address etc. Regarding the hospitals themselves we will need to know where they are located and how to contact them.
* The prescriptions given to each patient by a health-care provider also need to be tracked in this particular database at this time to determine claim eligibility including some basic information on the drug being prescribed to make sure there are no conflicts with a patient’s other prescriptions. We need to know each drug’s name, purpose/use and possible side effects.

- Eventually, the database will be used to track trends and for some extrapolative modeling based on the accumulated data.

- Build a list of business needs, rules and assumptions based on your scenario, research, and objectives. E.g. Each patient can only have one primary care doctor at a time.

- Develop a list of potential entities including their attributes, the attribute’s optionality as well as a possible UID for each entity.

- Create the Entity Relationship Diagram (ERD) that meets the needs and objectives.