

## NR 542 Week 2 Discussion

Name two-to-five entities (also known as entity classes in your text) that will be part of your database. Explain why you have chosen these entities. Using the Chen format as shown and discussed in the Opper text, draw an entity-relationship (E-R) diagram for two entities including their relationship; for one of the entities, also name the identifier. Attach the diagram to your discussion post as a PDF document. (Hand drawn diagrams are not acceptable; you may utilize a software program or Microsoft Word symbols to depict your diagram aspects).

### Answer:

Designing and developing a database can be challenging and development of the E-R diagram provides the blueprint for a system database to simplify data access (Hettiarachichi, et. al., 2019). For my database I have chosen Patient and Unit as my entities. This database will determine when patients are receiving GIP level of care, for how long and at which in patient unit. I have chosen patient as one of my entities because the database will reflect admission to general inpatient level of care as defined by patients receiving this hospice service. I also chose unit as an entity because the database will identify patients receiving general inpatient care services at one of four inpatient units. The patient and the unit are both related to general inpatient level of care. In order to have general inpatient level of care data, the patient serves as the who, while the unit serves as the where. These two items are related with GIP level of care. In order to have an admission, there must be a patient and also an unit. The what, who and where of the database consists of these three key items. The identifier I chose for my E-R diagram entity is the medical record number or MRN. This will be the easiest and most efficient way to collect patient specific information in regards to level of care. The MRN will connect the information from admission to level of care to place of care. I utilized a website, Lucid, to create my E-R diagram. It was very easy to navigate and provided numerous options to create a diagram that fits the needs of this assignment. I was able to create my diagram and save it as a PDF file free of charge. I like the concept of the E-R diagram, as it gives me a visual base to build upon. I am a visual learner, I have learned and so this assignment has brought clarity to my ideal database design. I enjoyed the ease of creating the diagram within the website I chose and will likely utilize this website in the future. Creating a database is extremely complex and involves both