**Part I - Project Questions:**

1. Why would Mountain View Community Hospital want to use entity-relationship modeling to understand its data requirements?

* By Mountain View Community Hospital using an entity-relationship modeling, they get to see the fields of each table and how the table should connect with the relationships provided.
* They get to have a blueprint of the database that can be used database engineers to get a better understanding of the information to be contained in the database and implement data in specific software applications.

What other ways might the hospital want to model its information requirements?

* They can use Data Flow Diagrams that have processes, data stores, external interactors and data flows.
* They can also use Object Oriented Diagrams that capture the static view of a system at a particular moment.

1. Do there appear to be any weak entities in the description of the Mountain View Community Hospital data requirements? Yes. If so, what are they? The weak entities are Employee entity and Treatment entity that have no primary key defined and draw a primary key from two attributes respectively.
2. What is the significance in developing an E-R diagram for the Mountain View Community Hospital to the third entry in the preceding list, which states that some patients are assigned to a bed, but outpatients are not assigned to a bed? The significance of developing an E-R diagram for the Mountain View Community Hospital to the third entry in the preceding list is to make sure that we don’t end up using a many-to-many relationship.
3. Is Mountain View Community Hospital itself an entity type in a data model to represent its data requirements? No, Mountain View Community Hospital itself is not an entity type in a data model, there are other approaches implemented to ensure so.

ENTITY RELATIONSHIP MODEL

The assumptions I made for this model are included in the diagrams.

Graphical user interface

Description automatically generated

Graphical user interface

Description automatically generated with low confidence

Graphical user interface

Description automatically generated

Graphical user interface

Description automatically generated

Graphical user interface

Description automatically generated

Diagram

Description automatically generated with low confidence

Graphical user interface

Description automatically generated with medium confidence