Joseph Pawlowski Assignment 1

i) See ER Model.png

Assumptions:

1: Every BILL has a different name

2: Dill is sponsored by one CONGRESS\_MAN

3: Each CONGRESS\_PERSON can represent one district and one district is represented by one CONGRESS\_MAN

ii) Some constraints that cannot be captured using ER Modeling constructs include the domain of voting attributes (Yes, No, Abstain, Absent). This is needed to show how each Representative voted on each Bill. However, the different way that a Representative can vote does not need be included in the ER Model. Another construct is the states that determine whether a bill PassedOrFailed (YES, NO). This needed to show whether a Bill has passed or not, but the two possible states do not have to be represented in the ER Model. Another construct is the political party that each Representative is associated with (Republican, Democrat, Independent, other). This is needed to show what party the Representative is affiliated with, but the ER Model does not need to show what party the representative is with only that he or she has a party. The final construct is the region of the state where the Representative is from (North East, Midwest, Southwest, West). This is needed to show where the Representative comes from, but the actual area does not have to be shown. Only that the Representative comes from an area needs to be shown.