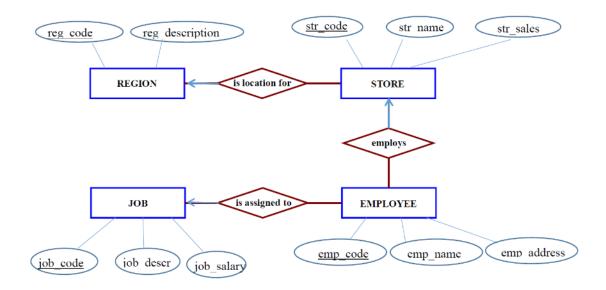
Metro State University ICS-311-50 Summer 2023 Class Assignment 4

Question 1 (5 points)

Given the following ERD for a ProdCo. company:



a) Identify all relationships and their cardinality and write the corresponding business rules.

b) Show the relational schema for the database. Make sure to clearly indicate primary keys and foreign keys.

Questions 2: ERD design (5 points)

You are hired to set up a relational database for a small community hospital. The first thing you do is to go to the hospital and find out the attributes that need to be stored, and their inter-relationships. Here are your findings:

- Every room has a unique room number (integer).
- Every room has one designated usage (char [40]), but different rooms may have the same usage.
- Every patient is assigned a room, but many patients may be assigned to the same room.
- Every patient has a unique patient number (integer)
- Every patient has a name (char[40]) which is not necessarily unique.
- A patient may be treated by more than one doctor, and a doctor may attend to more than one patient.
- Every doctor has a unique doctor number (integer) and a unique phone (char[10]).

Outline the key features that will be shown in the diagram namely Entity Sets with attributes, Relationships (types) between Entities.. Don't draw the ER diagram..