BADM 750 ERD Example Problem

Premier Construction Company

Premier construction erects buildings at a variety of locations. Each building requires a number of different types of materials in quantities that vary by building. Different crews carry out different portions of the project. For example, there may be a crew for framing, a crew for drywall, a crew for plumbing, a crew for masonry and so on. In scheduling the construction of a building, Premier assigns different crews to different dates. Workers are assigned to different crews, depending on their skills. Thus, Hank Brigman can do both carpentry and masonry work and so is assigned at various times to framing, drywall, and masonry crews. The size of a crew varies according to the size and requirements of the building. Consequently, crews are made up as needed for a particular building. Also, a foreman is assigned to a particular crew for a particular building. A worker can be a foreman on one crew and simply a worker on another crew. Marcus Brown, owner of Premier wants to know which of his workers are assigned to crews for various buildings, what materials are being used on the buildings, and when work on each building is scheduled.

Design a conceptual data model that can provide the information Brown is seeking.