Assignment C Part 2

Assume you are asked to develop a data model that will be implemented for a database application for a small software development company, Baker Software Consulting (BSC). BSC is a project oriented company. The requirements for the database application are as follows:

1. Each software product may stand alone as an independent application or may become a component of another software product.
2. Each project has one project manager. Each project has a start date and an end date. Each project has one or more tasks
3. Each project develops one or more software products for one and only one customer.
4. Each task should have a start date and an end date. Each task is established for one software product. Multiple tasks may be needed for each software product
5. An employee may be a project manager or a member of a project by being assigned to one or more of the tasks.
6. All employee assignments to tasks need to be kept for history review so that the managers can determine the work load of each employee. An employee may be assigned to a task in part of the task time length. So an employee assignment needs to have its own start and end date.
7. Each employee has one and only one home division.
8. Each division has one division manager who is an employee of Baker Software Consulting.
9. Other than the home division, each employee based on his/her expertise is also assigned to a team. Each team specializes in a specific software development skill. One employee may be assigned to multiple teams.

In Visio, develop a conceptual data model that captures the requirements as stated above. If you have questions, you can ask Dr. Chen who is the sponsor of this database application. Each Entity needs to have a name and the identifier (NOTE: some identifiers may be composite identifier). Relationships need to be specified to reflect the requirements.

Create the data model in Visio. Make sure the Begin Arrow Size and End Arrow Size are set to Jumbo.

Submit the Visio file to Canvas.