Assignment 1 Due: Before the start of Sep 12 class

You should complete your assignment with a computer but not manually, and you may use any graphical tool to draw your diagrams.

Draw an ERD diagram based on the Crow's Foot model for a database to support the basic operations of “Milky Way Jewelry”.

Specify:
- Entity sets, their attributes, and primary keys;
- Relationship sets and their descriptive attributes (if such exist);
- Connectivities and cardinalities;
- Decompose all M-M relationships, if any;
- If found, replace any multi-valued attributes and composite attributes appropriately.

Each piece of jewelry for sale is assigned a unique number, and is described by the name, sale price and a style.

Each piece of jewelry can be made from one or more material, e.g. white gold and diamond. The same material can be used to make many pieces of jewelry. The materials used and their amount for each piece must be recorded in the database. Materials are described by material code, title and feature. A material can be a mixture of other materials. Then it is necessary to record the composition of the material including the percentage of each mixed material. The same material can be used to make many kinds of mixtures.

For each piece of jewelry it is necessary to record the artist who created the piece of art. Information about artists is to be recorded in the database. It includes artist ID, name, address and phone number. One artist can create many pieces of jewelry. Each piece of jewelry can be only made by one artist.