PHASES of the Database Design Process

1) Requirements Analysis
   a. Determine Scope (How many users, who are the users).
   b. Work with users to determine how database will be used and what pieces of data are required.
   c. Generate a Process Model Diagram to document how the business processes work.

2) Logical Design
   a. Identify entities, attributes, primary keys.
   b. Determine relationships and cardinality.
   c. Generate an Entity Relationship Diagram (ERD).

3) Physical Design
   a. Determine the database technology to be used (in our case: Relational).
   b. Convert the ERD into a Relational Data Model.
      i. Complete data modeling by incorporating foreign keys and/or intersection tables where applicable.

4) Database Testing
   a. Develop a Test Plan.
   b. Manufacture Test Data.
   c. Implement the Test Plan.
      i. Make revisions for any failed tests.
      ii. Major failures may require going back to step 1, 2, or 3.
   d. Document results of the Test Plan.

5) Database Implementation
   a. Load "real" application data, if applicable.
   b. Provide appropriate access permissions.
   c. Make database available to users.