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ITSE 1450

Module 9 Discussion 1

* Step 1: Identify all the entities involved in the TopText system: Headquarters, Warehouse, Sales Office, Author, Book, School, College, Customer.
* Step 2: Define the relationships between entities:
  + Headquarters to Sales Office: One-to-many, as there is only one headquarters but several sales offices.
  + Sales Office to Sales Managers: One-to-one, each sales office has one manager.
  + Sales Office to Sales Reps: One-to-many, each sales office has multiple reps.
  + Sales Reps to Schools/Colleges/Customers: Many-to-many, since sales reps can deal with multiple schools, colleges, or customers and each institution or customer can deal with multiple reps.
  + Author to Book: Many-to-many, as authors can write multiple books and books may have co-authors.
  + Book to Warehouse: Many-to-one, as multiple copies of a book are stored in a single warehouse.
  + Book to ISBN: One-to-one, every book has a unique ISBN.
* Step 3: Apply cardinality notation using symbols or numbers to indicate the type of relationship, such as a line ending in three prongs for a "many" side of a relationship and a single line for a "one" side.