

Conceptual Data Modeling Assignment

Instructions

Overview

This assignment is all about conceptual data modeling. You will be practicing two activities that are part of conceptual data modeling:

1. Conducting a *ragbag* planning exercise
2. Creating an entity-relationship diagram (ERD)

Deliverables

The *ragbag* planning exercise is a precursor to creating the ERD. You will not be submitting the results of this exercise. **You will only be submitting the entity-relationship diagram (ERD).**

Scope of Data Model

iSchool Webstore is a fairly big case. So, for the purposes of this assignment, you should **limit the scope of your effort to include the following requirements:**

- Setup a customer
- Setup a product item for sale
- Take an order
- Accept payment for an order
- Track “picking” of the order
- Track shipping of the order
- Report sales
- System users
- Permissions for system users

There are other requirements that are discussed in the case document that should NOT be included in the scope of this project. These include:

- Messaging between customer and Webstore staff
- In-person order pickup
- Automated interface to shippers’ systems (like USPS)
- Automated interface to vendor’s systems (like suppliers of T-Shirts, Mugs, etc.)
- Tracking of which Webstore employees performed which actions (like “picking”, shipping, etc.)

The *Ragbag* Exercise

Following the approach that I demonstrate in the Part 1 tutorial video, conduct a *ragbag* exercise for the iSchool Webstore System. The result of this exercise should be several lists of items to be used when creating the ERD in the next step. These include:

- List of entity types (Entities)
- List of relationship types (Relationships)
- List of attribute types (Attributes)
- List of important instances

These lists are for your own use. Please DO NOT submit them.

The ERD

Following the approach that I demonstrate in Parts 2, 3, 4, and 5 tutorial videos, create an ERD for the iSchool Webstore System. When the diagram is complete, create a PDF copy to submit.

Tools

The *ragbag* exercise can be done with any word processor. Since you are not submitting the output of this exercise, you are free to use any tool.

The ERD should be done with LucidChart.

Format

The ERD should be submitted as a .PDF document

File Naming

You will be submitting a single .PDF document named according to the following scheme:

surname_givenname_conceptual_data_model.pdf

If I were completing this assignment, I would name my file:

trainor_kevin_conceptual_data_model.pdf

PLEASE NOTE: All file names must be in lower case. Deductions will be made for submissions that do not conform to this standard.

Due Date

Please see the Weekly Schedule for the date and time when this assignment is due.

Last Revised

2021-10-20