

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 task
2. Creating an entity-relationship diagram (ERD)

Deliverables

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

The *Ragbag* Task

Following the approach that I demonstrate in the Part 1 tutorial video, conduct a *ragbag* task for the iSchool Webstore System. The result of this task 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

You will be submitting one ERD whether you are submitting only Exercise 1 (Regular) or if you are also submitting Exercise 2 (Challenge). **In either case, just submit one ERD.**

Exercise 1 (Regular)

If you are submitting only Exercise 1, then you will have a slightly smaller scope for your data model. 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

You should **not include** the following requirements in the scope of your data model:

- 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.)

Exercise 2 (Challenge)

If you are submitting both Exercise 1 and Exercise 2, then you will have a slightly larger scope for your data model. 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
- Tracking of which Webstore employees performed which actions (like “picking”, shipping, etc.)

You should not include the following requirements in the scope of your data model:

- Messaging between customer and Webstore staff
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Tools

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

The ERD should be done with LucidChart.

Format

The ERD should be submitted as one .PDF document. Your PDF document may have more than one page of content.

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
2022-10-16