

# Assignment 1: Design a Logical Model

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- Please share your completed assignments with Ananya & Thomas: [ananya.jha@mail.utoronto.ca](mailto:ananya.jha@mail.utoronto.ca) ; [thomas.rosenthal@utoronto.ca](mailto:thomas.rosenthal@utoronto.ca)
- Submissions can be in the form of a zip folder, Dropbox link, Google Drive link, etc
- Due on Wednesday, January 17 at 11:59pm
- Weight: 40% of total grade

### Q1

Create a logical model for a small bookstore. 📖

At the minimum it should have employee, order, sales, customer, and book entities (tables). Determine sensible column and table design based on what you know about these concepts. Keep it simple, but work out sensible relationships to keep tables reasonably sized. Include a date table. There are several tools online you can use, I'd recommend [Lucidchart](#).

### Q2

We want to create employee shifts, splitting up the day into morning and evening. Add this to the ERD.

### Q3

The store wants to keep customer addresses. Propose two architectures for the CUSTOMER\_ADDRESS table, one that will retain changes, and another that will overwrite. Which is type 1, which is type 2? *Hint, search type 1 vs type 2 slowly changing dimensions.*

Bonus: Are there privacy implications to this, why or why not?

### Q4

Review the AdventureWorks Schema here: [link](#)

Highlight at least two differences between it and your ERD. Would you change anything in yours?