Project Design Draft Milestone (worth: up to 15 points)

Due:

by **11:59 pm** on **Monday, November 18**

How to submit:

Submit the files noted below to Canvas.

What to submit:

(Submit a `.zip` file containing the following files instead of submitting the individual files.)

Submit the latest, current version of your `325scenario.pdf`, `325model.pdf`, and `325biz-rules.pdf`.

- **Make sure** that the model you submit corresponds to your submitted design/schema! Your design/schema will be graded on the basis of the model version that you submit along with it.
  - This does **NOT** mean to add table-related aspects to your model! It means, if you change any maximum or minimum cardinalities, for example, or add or remove any entity classes, etc., based either on comments from me or from insights you get during the design process, that you modify the model to reflect them.

ALSO: Create a text file `325design-rs.txt` containing the following:

- include all your group member names
- CS 325 - Fall 2024
- the date the design was last modified
- your current-as-of-this-point *partial* database schema/design, in which the structure of your database's tables are expressed as neatly-formatted **relation structures**,

with SQL-style `references` clauses used to indicated foreign keys

  - (why do I call this *partial*? Because, for example, it does not include any domain information for the database attributes)
  - the purpose of this partial version of your design is for convenient future reference, for example as you are working on example queries and reports for a later milestone

ALSO: Create a **SQL script** named `325design.sql` containing the following:

- include all your group member names
- CS 325 - Fall 2024 (in a comment)
- the date the design was last modified (in a comment)
- your current-as-of-this-point less-partial database schema/design, in which the structure of your database's tables are NOW expressed as **nicely-formatted SQL** `create table` **statements**.
  - precede each SQL `create table` statement with a **neat comment** describing the table's **purpose**, explaining any attribute whose meaning is not immediately clear from its name, and elaborating on the domain of any attribute whose logical domain needs more description than is apparent from its physical domain
  - (for convenience later during population, go ahead and also precede each SQL `create table`

statement with a corresponding `drop table` statement as well)

- remember: primary keys must be explicitly specified for each table, and all foreign keys necessary should be explicitly specified as well

- (thus, these SQL `create table` statements give us 3 of the 4 components of a database design/schema: the tables' structure, their relationships, and at least some indication of each attribute's physical domain, if not its logical domain.

And you are already submitting your latest set of business rules along with this, so this milestone's pieces do include a complete database design/schema.)

Additional notes/reminders:

- **PLEASE NOTE**: `insert` statements **DO NOT** belong with the database design. Please save them for the population milestone, and do **NOT** include them here.

Checklist: files to submit for this milestone:

△   `325design-rs.txt`

△   `325design.sql`

△   `325model.pdf` (latest/current version)

△   `325biz-rules.pdf` (latest/current version)

△   `325scenario.pdf` (latest/current version)