

Climate Action - Design

IT 120 - Databases

Kit Transue

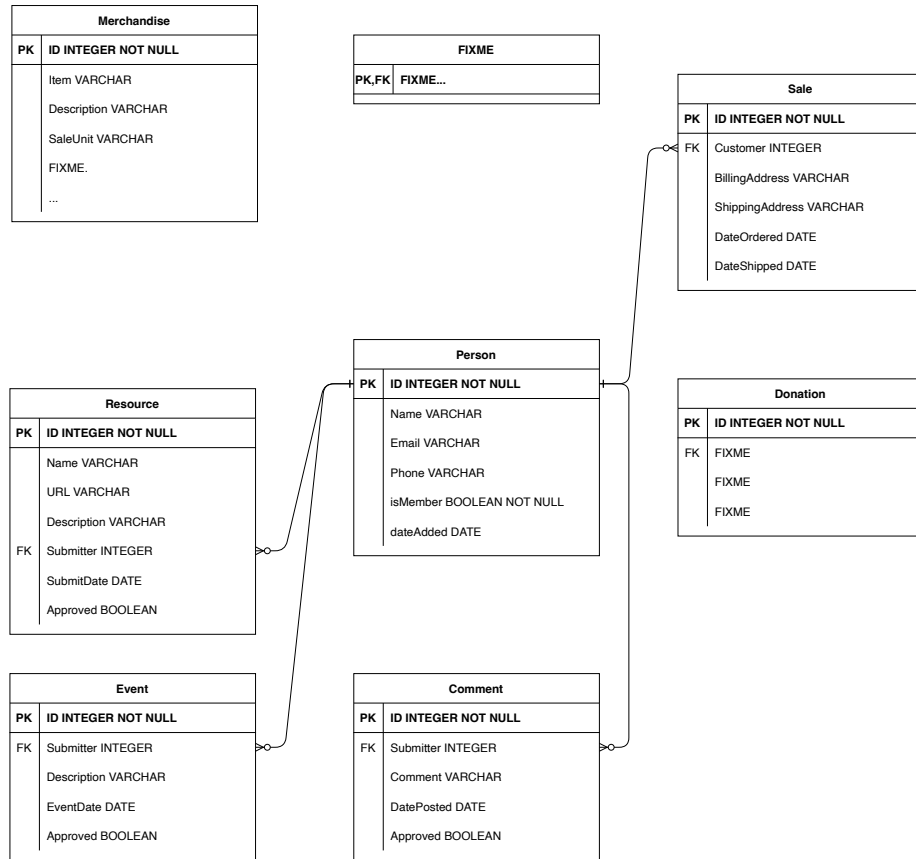
Design

This framework supplies many of the entities for the Climate Project. It is missing:

- Donation attributes
- Merchandise attributes
- a way to make sales

As in the assignment: either attach the design file in Canvas, or Commit/Push (“Sync” in VSCode) and mention in a Canvas text entry that you have pushed.

Starting design



Donation

Complete the Donation entity that appears in the Climate-Database-partial (SVG or Draw.io) starting design:

- review the Donation document in the collected Sample Documents
- fill in attributes
- avoid 3NF violations by linking to Person

Include in your submitted ERD:

- a simple entity box with name for any linked entities (there is no need to include attributes that already appear in the diagram)
- relation lines between entity/entities
- attributes with types for the data you want to add to Donation

Merchandise

Extend the Merchandise entity that appears in the Climate-Database-partial (SVG or Draw.io) starting design:

- review the merchandise and inventory in the Sample Documents
- add attributes to support inventory levels

Include in your submitted ERD:

An entity diagram for Merchandise with:

- attributes with types for the data you want to add to Merchandise

Sales

Add support for making sales to the Climate-Database-partial (SVG or Draw.io) starting design:

Look at the Sales samples in the sample documents. Note the samples have a “Item2/Quantity2” column. This is a 1NF violation which you will need to address, and if you address it well, you will get a database design that would allow a customer to order three or four or even more items in one sale. This will be good for revenue!

In the sample diagram, I have provided room for an additional table.

Please double-check that item quantity and item price are in the right place.

Include in your submitted ERD:

- any new entities you need to connect Sale and Merchandise
- PK/FK relation lines between entity/entities that you need to describe the sale sample

