

Climate Action - Create and Populate

IT 120 - Databases

Kit Transue

Create and Populate Tables

In this module, you should create and populate your tables. The code to create the Person and the various contribution tables is provided and should work without modification.

The supplied “reset.bat” file (which can be run on both macOS and Windows) will reset the database “climate-project” and go through all the steps of loading the data. You may rename the database if you like, but be sure to change all occurrences of “climate-project” in “reset.bat”.

For each of the four assignments in this section, there is a boilerplate file supplied. You must adapt it based on the data and your design.

Testing

As you go along, remember you can always run “SELECT * FROM table;” to see your data. This is useful in troubleshooting.

For the Donation table, two additional queries are provided to give you a sense of your progress with each task. You are not required to run these, but if you have any questions about how you have done with the table, running this may help you feel good about it.

Supplied tables

The “create.sql” and “insert.sql” files do not require any modification, and you should be able to run these and populate the following tables:

- comment
- event
- person
- resource

Donations

Create Donations

In the “create-donation.sql” file, create the columns needed to reference the Person making the donation, and the information about the donation. The columns should match the attributes in your design.

Your submission should include updates to “create-donation.sql” file or similar code in files you have created.

Insert Donations

The Donation INSERT framework “insert-donation.sql” is missing the foreign keys needed to make it match the “Donations” Sample Document. Fill in the FIXMEs. Reference the Sample Document.

Use “SELECT * FROM Person;” if it is useful.

Your submission should include updates to “insert-donation.sql” file or similar code in files you have created.

Sales

Handling a Sale is a complicated process. A sale involves four tables: the Person buying the item, the Merchandise being bought, a Sale to keep track of the order and shipping, plus a table you should have made in the design to express the many-to-many relationship between Merchandise and Sales.

The Person table is provided and should be complete.

Create Sale-related Tables

In the “create-sale.sql”, address the following issues (all labeled with “FIXME”):

- Merchandise: add the fields needed to support inventory
- Sale: changes, if any are needed to support items or item quantity
- A new table: schema to support sale/item/quantities in the “Sales” Sample Document

Your submission should include updates to “create-sale.sql” file or similar code in files you have created.

Insert Sale-related Data

In the “insert-sale.sql”, address the following issues (all labeled with “FIXME”):

Merchandise (consult the Merchandise sample in Sample Documents):

- a column name for the datum that appears between “saleunit” and “inventory” in Merchandise
- the missing VALUES for row 1 and row 5

Sale: changes, if any are needed to support items or item quantity.

New table: data to support sale/item/quantities in the “Sales” Sample Document.

Your submission should include updates to “insert-sale.sql” file or similar code in files you have created.

