

Homework 7 – Project Proposal, Schema Instantiation and Testing

1. Write the SQL to create all of the tables needed for your database.
2. Create data validation files to test the loading process and document the logic.
3. Load the test data into your database, document both expected and unexpected outcomes.
4. Explain what you had to do in order to fix the problems you ran into with data loading.
5. Prepare your data, according to the plan you presented in HW5, so that you can load it into the database.
6. Document any changes you will need to make in your data preprocessing plan in order to have the necessary files ready for populating your database.
7. Verify that you have enough data in enough tables to satisfy the class requirements.

What I expect

1. Turn in a printout of the SQL statements from step 1
2. Turn in the documentation for step 2 with a screen shot or figure of the top part of each file and an explanation as to what exactly it is testing
3. Turn in the documentation from step 3, indicating either that a file loaded or showing the error statement and how you rectified it.
4. Turn in the documentation that results from steps 5 if there is any
5. Turn in a row count or similar metric for each table, indicating that you have read the class requirements and how you meet them.

Note: what remains for your class project will be to fully populate the database with the research data, to write the SQL that makes the scientific **queries** happen, and a test/verification step that those queries work as expected – again, you might create some deliberately incorrect data, or data that is easy to recognize in order to quickly identify problems.