

Frustration Report for Week 3

Challenges Faced

During Week 3, we were tasked with uploading our selected tables to SQLite3 to form a database. Since we had practiced selecting the data and creating ERD's in the prior weeks, there were less challenges faced from that aspect. However, for week 3, my biggest challenge faced was determining the best approach for loading the data into SQLite. I have never previously worked in with this software, given our database class was centered around learning SQL via Microsoft Access. There was also a bit of a learning curve for navigating SQLite on a Mac, however I found it was most straightforward to use via the DB Browser UI download for SQLite.

There were also many transformations needed given that the raw data from the World Data Bank is not in an ideal format initially. For example, our data was originally formatted with a column for series name with values in 3 separate columns for each year. Given that attributes are typically columns in a table, we needed to transform the structure of the data in our database to appropriately relate tables by primary keys.

Strategies Used to Overcome Obstacles

In terms of learning how to navigate and access SQLite, I referred to tutorial videos and forums to assist with the most efficient way of using the platform. Ultimately, utilizing DB Browser for SQLite was the most straightforward approach to creating the database with the appropriate entities and attributes

Also after restructuring the data, it made it easier to create relationships between the entities/tables we identified for our project. Within each entity, each indicator was given a unique column so that the data was structured for entities to relate to each other based on the combination of country code and year.

Reflections and Lessons Learned

If I were to start this section of the project again, I would want to spend more time understanding how to navigate SQL within my laptop's terminal and whether or not that is

the most efficient and/or standard approach that most analysts take when creating and manipulating project databases. Similarly to Week 2's frustration report, I was able to practice and refine my approach to analytical problems from a database structuring/creation perspective. This step of our project allowed me to increase my understanding of database engineering and management.