Assignment Three: relational database exercise

Chiayu Tu (Louis Tu)

2/3/2022

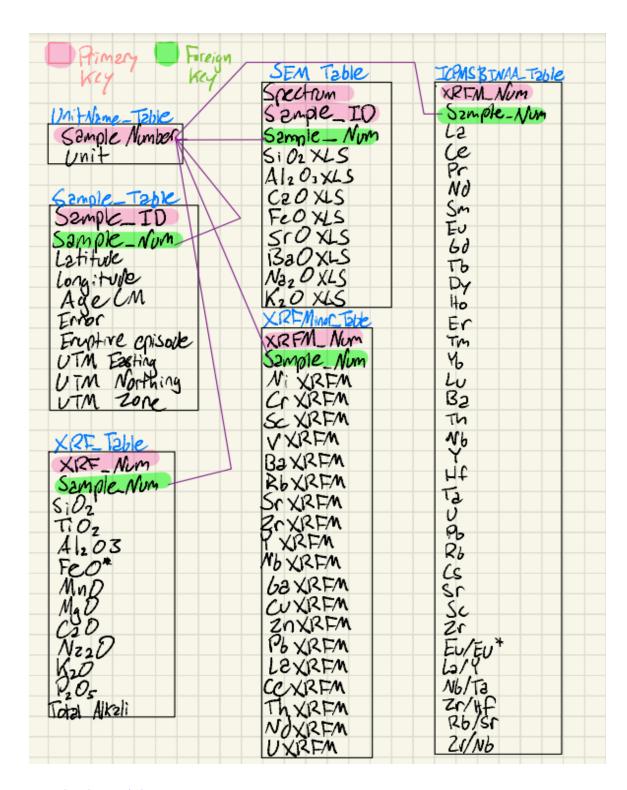
## **Assignment Three**

We created six tables for this assignment. The six tables are UnitName Table, Sample Table, SEM Table, XRF Table, XRFMinor Table, and ICPMS&INAA Table. We take the Unit name as our main table, this table stores all the Units, and we create a Sample Num as our Primary Key. We can use Sample Num as our interface to link other tables.

All samples are stored in Sample Table, and our Sample Num identifies the Unit corresponding to all samples with the same number. Through this method, we can more easily use Sample Num to find out all the Samples data related to the Unit.

SEM Table mainly stores some Spectrum of Sample. We use Spectrum and Sample to form the Primary Key of this table, because the same Spectrum may appear in different Samples. We also create a Sample Num in this table, so that we can use the Unit Name to find the corresponding Spectrum.

The logic of the remaining three tables is roughly the same, which mainly stores some Unit-related data. We have created two columns in these three tables. The first column stores the corresponding number of each row of data and serves as the Primary Key of the table. The second column stores the corresponding Sample Num and serves as the Foreign Key of the Table.



## Google Sheet Link:

https://docs.google.com/spreadsheets/d/19 Giso 7 Ug5-fvLfkw8kIF8 Ug0 FCGx7A1 ZyngU for the control of the con

Z8amB7g/edit?usp=sharing