**Brooke Cooper - SQL Challenge Folder - Table of Contents**

(***PLEASE READ ALL Jupyter Notebook files listed below.*** They are part of the my answers to provide answers and discuss topics and analysis.)

**Minis**

* **Week 1** -- Answers to Questions 3-1 thru 3.4 pp 60-61 of Learning SQL by Alan Beaulieu
  + 3-1.sql
  + 3-2.sql
  + 3-3.sql
  + 3-4.sql
  + source creation file (fixed and made public by Redeat): postgreSqlScript.sql
  + original downloaded non-functioning source creation file: LearningSQLExample.sql
* **Week 2** -- Answers to Questions 1 thru 5, each in its own folder
  + **01-SQL\_Joins**
    - Mini Homework - SQL-challenge - Week 2 - Question 1. Joins - Part 1 (merge\_joins\_examples).sql
    - Mini Homework - SQL-challenge - Week 2 - Question 1. Joins - Part 1 (merge\_joins\_examples).ipynb
    - Mini Homework - SQL-challenge - Week 2 - Question 1. Joins - Part 2.ipynb
    - X1.csv source file
    - X2.csv source file
  + **02-Alter\_Update**
    - Mini Homework - SQL-challenge - Week 2 - Question 2. Alter vs. Update.sql
    - Mini Homework - SQL-challenge - Week 2 - Question 2. Alter vs. Update.ipynb
  + **03-DML\_and\_DDL**
    - Mini Homework - SQL-challenge - Week 2 - Question 3. DML & DDL.sql
    - Mini Homework - SQL-challenge - Week 2 - Question 3. DML & DDL.ipynb
  + **04-Duplicates**
    - Mini Homework - SQL-challenge - Week 2 - Question 4. Duplicates.sql
    - Mini Homework - SQL-challenge - Week 2 - Question 4. Duplicates.ipynb
  + **05-Groupby**
    - Mini Homework - SQL-challenge - Week 2 - Question 5. Groupby.sql
    - Mini Homework - SQL-challenge - Week 2 - Question 5. Groupby.ipynb
    - ufoSightings.csv source file

**Case Homework**

* README\_BrookeCooper\_EmployeeSQL.md (includes extensive discussion of methods, et.al.)
* Brooke Cooper - EmployeeSQL-CaseHomework-Query-1 - 2020-11-25.sql
* Brooke Cooper - EmployeeSQL-CaseHomework-Query-2 - 2020-11-25.sql
* Brooke Cooper - EmployeeSQL-CaseHomework-Query-3 - 2020-11-25.sql
* Brooke Cooper - EmployeeSQL-CaseHomework-Query-4 - 2020-11-25.sql
* Brooke Cooper - EmployeeSQL-CaseHomework-Query-5 - 2020-11-25.sql
* Brooke Cooper - EmployeeSQL-CaseHomework-Query-6 - 2020-11-25.sql
* Brooke Cooper - EmployeeSQL-CaseHomework-Query-7 - 2020-11-25.sql
* Brooke Cooper - EmployeeSQL-CaseHomework-Query-8 - 2020-11-25.sql
* constraint\_fk.sql (I initially built and populated the database and tables using configurators and then added FKs using a SQL script.)
* ERD\_metadata.xlsx (I initially constructed a spreadsheet to track ERD schemata.)
* ERD\_metadata.pdf (As instructed, I turned the view into an image file type pdf)
* ERD\_metadata.jpg (And then exported the pdf image as a jpg)
* QuickDBD-EmployeeSQL\_ERD.png (image taken from my work on quickdatabasediagrams.com)
* QuickDBD-EmployeeSQL\_ERD.sql (exported from my work on quickdatabasediagrams.com)
  + Retrospective Note: I would have probably generated a junction table or a composite key to avoid having a table without a PK)
* pip\_install\_psycopg2.ipynb (self explanatory)
* pip\_install\_SQLAlchemy.ipynb (self explanatory)
* psycopg2\_example.ipynb (pre-primary-work to ensure functioning SQL API in python pandas)
* Example\_Formatted\_Histogram.ipynb (quick refresh to prepare for generating histogram)
* Brooke Cooper employee\_sql 2020-11-26.ipynb
* Brooke Cooper employee\_sql - Backup (1).ipynb (self explanatory)
* source csv data files in folder data