**TEAM Project Worklog**

**Sunday, October 26, 2014**

* **Logging into postgresql**
  + - sudo -u postgres psql
  + Whle logged into psql, ran the following copy command:
    - copy crime\_data from '/Users/Shared/crime\_incidents\_2013\_CSV.csv' with delimiter as ',' csv header
  + Copy failed….complaining about blockxcoord datatype…cant be integer…may need some sort of decimal accommodating datatype
  + Dropped crime\_data table:
    - postgres=# drop table crime\_data;
  + Changed many datatypes in the crime\_data table statement:
    - CREATE TABLE crime\_data ( ccn integer, reportdatetime timestamp, shift text, offense text, method text, lastmodifieddate timestamp, blocksiteaddress text, blockxcoord numeric, blockycoord numeric, ward integer, anc text, district text, psa text, neighborhoodcluster text, businessimprovementdistrict text, block\_group text, census\_tract text, voting\_precinct text, start\_date timestamp, end\_date timestamp ) ;
  + **Copy command worked**
    - postgres=# \copy crime\_data from '/Users/Shared/crime\_incidents\_2013\_CSV.csv' with delimiter as ',' csv header
  + Performed row count validation:
    - postgres=# select count(\*) from crime\_data;
    - count
    - -------
    - 35886
    - (1 row)
    - typed \q to exit psql
  + Merged all the postgres commands in with the python doc and renamed the python file to import\_crime\_data.py
  + Ran the import\_crime\_data.py file
    - /usr/local/bin/python import\_crime\_data.py
  + Performed row count validationf
    - postgres=# select count(\*) from crime\_data;
    - count
    - -------
    - 35886
    - (1 row)

**Tuesday, 14 October 2014**

* + Created table crime\_data in PostgreSQL database
    - Used postgres Admin tool (GUI):
      * CREATE TABLE crime\_data ( ccn integer, reportdatetime timestamp, shift varchar(20), offense varchar(20), method varchar(20), lastmodifieddate timestamp, blocksiteaddress varchar(60), blockxcoord integer, blockycoord integer, ward integer, anc varchar(20), district varchar(20), psa varchar(20), neighborhoodcluster varchar(20), businessimprovementdistrict varchar(20), block\_group varchar(20), census\_tract varchar(20), voting\_precinct varchar(20), start\_date timestamp, end\_date timestamp ) ;
  + Created the copy.sql file containing the sql to perform the import of the crimedata from external file system to postgres table. Can be called from within the DBconnect file, if we choose.
    - Need to test this…

**Monday, 13 October 2014**

* Created work directory to place all working files in
* Reviewed numerous basic PostgreSQL documents regarding connections, username / password changes, etc.
* Created DBconnect
  + This python file will connect to the database
  + During the testing of this file, found I needed to install pscopg2
    - Tried to install using pip but it failed complaining about not being able to find pg\_config.
    - Had to alter the $PATH variable to include the directory for PostgreSQL
    - Export PATH=/Library/PostgreSQL/9.3/bin:/usr/bin:/bin:/usr/sbin:/sbin:/usr/local/bin
  + Python version getting confused…cant find psycopg2 module I just installed….
    - Its because there are multiple versions of python installed
    - Need to use the python 2.7 version installed here: /usr/local/bin
    - Run this command:
    - /usr/local/bin/python
  + Now running the python interpreter…it is still complaining…cant find this library: libssl.1.0.0.dylib
  + Need to create softlinks in /usr/lib :
  + ln -s libssl.1.0.0.dylib -> /Library/PostgreSQL/9.3/lib/libssl.1.0.0.dylib
  + Reference: http://psycopg.lighthouseapp.com/projects/62710/tickets/111-library-not-loaded-libssl100dylib
    - Getting permission denied….had to do it as root
  + Import Failed again…
  + Ran the following:
    - Troopers-MacBook-Pro:lib tboyd$ sudo cp libssl.1.0.0.dylib /usr/lib/
    - Password:
    - Troopers-MacBook-Pro:lib tboyd$ sudo cp libcrypto.1.0.0.dylib /usr/lib/
  + Tried to import psycopg2 module
    - SUCCESS\*\*\*\*\*\*\*\*\*\*
    - Note: Still Using /usr/local/bin/python
  + Ran test of DBconnect using /usr/local/bin/python and it worked!!!!!!!
  + \*\*\*\*So database connection code is successful….time to work on import of the data using the copy command in Postgresql