**Applicant ID# 2122197**

**Github public repository: https://github.com/2122197/2122197.git**

**There are four reports that I have generated using the in-memory Open Source database SQLite ver3. Below are the source-code SQL’s that are used to generate the CSV outputs that show summary statistics based on the Census ACS data and CFPB Consumer-Complaints. Below is the description that can also be found in ‘exec.sql’ file that is found in the attached ‘cfpb.sqlite’ database.**

**These reports can also be generated by executing the SQL file using these simple steps:**

**sqlite> .open test.sqlite**

**sqlite> .read exec.sql**

**---- Report 1: Summary data indicating zip codes with the highest compaints Desc with the State they belong to.**

**SELECT COUNT(\*) as issue\_count, TRANS.zipcode, TRANS.STATE FROM**

**(**

**select G.FILEID, G.STUSAB, G.SUMLEVEL, G.COMPONENT, G.LOGRECNO, G.UR as Urban, G.PCI as Metro, G.GEOID, G.NAME, C.\* from consumer\_complaints C, geography\_acs G**

**where C.zipcode = G.zcta5**

**AND TRIM(G.zcta5) != '' AND TRIM(C.zipcode) != ''**

**) as TRANS**

**group by TRANS.zipcode, TRANS.STATE order by issue\_count desc ; --25,211 recs**

**---- Report 2: Summary data indicating all valid US regional States with the highest compaints desc**

**SELECT COUNT(\*) as issue\_count, TRANS.STATE FROM**

**(**

**select G.FILEID, G.STUSAB, G.SUMLEVEL, G.COMPONENT, G.LOGRECNO, G.UR as Urban, G.PCI as Metro, G.GEOID, G.NAME, C.\* from consumer\_complaints C, geography\_acs G**

**where C.zipcode = G.zcta5**

**AND TRIM(G.zcta5) != '' AND TRIM(C.zipcode) != ''**

**) as TRANS**

**group by TRANS.STATE HAVING TRANS.STATE != '' order by issue\_count desc ; --61 recs**

**---- Report 3: Showing which Products have the highest complaints across US regions**

**SELECT COUNT(\*) as Product\_issue\_count, TRANS.STATE, TRANS.Product FROM**

**(**

**select G.FILEID, G.STUSAB, G.SUMLEVEL, G.COMPONENT, G.LOGRECNO, G.UR as Urban, G.PCI as Metro, G.GEOID, G.NAME, C.\* from consumer\_complaints C, geography\_acs G**

**where C.zipcode = G.zcta5**

**AND TRIM(G.zcta5) != '' AND TRIM(C.zipcode) != ''**

**) as TRANS**

**group by TRANS.STATE, TRANS.Product HAVING TRANS.STATE != '' order by TRANS.Product , Product\_issue\_count DESC ; --594 recs**

**---- Report 4: Showing which Companies have the highest complaints across US regions**

**SELECT COUNT(\*) as Company\_issue\_count, TRANS.Company FROM**

**(**

**select G.FILEID, G.STUSAB, G.SUMLEVEL, G.COMPONENT, G.LOGRECNO, G.UR as Urban, G.PCI as Metro, G.GEOID, G.NAME, C.\* from consumer\_complaints C, geography\_acs G**

**where C.zipcode = G.zcta5**

**AND TRIM(G.zcta5) != '' AND TRIM(C.zipcode) != ''**

**) as TRANS**

**group by TRANS.Company order by Company\_issue\_count DESC ; --3228 recs**