/\*Creating raw data tables\*/

CREATE TABLE rawdata(

race INT,

statefip INT,

countyear INT,

inctot DECIMAL);

CREATE TABLE rawcrimedata(

propertycrime DECIMAL,

violentcrime DECIMAL);

CREATE TABLE rawpopulationdata(

serialno SERIAL PRIMARY KEY UNIQUE,

statefip VARCHAR(100),

countyear INT,

population INT);

CREATE TABLE allareas(

serialno SERIAL PRIMARY KEY UNIQUE,

statefip VARCHAR(100),

area INT)

/\*Imported data into the blank tables manually\*/

/\*Creating clean data tables starting with race\*/

CREATE TABLE blackcount(

serialno SERIAL PRIMARY KEY UNIQUE,

statefip INT,

countyear INT,

blackcounts INT);

INSERT INTO blackcount(statefip, countyear, blackcounts)

VALUES(30,1982,820);

INSERT INTO blackcount(statefip, countyear, blackcounts)

SELECT statefip, countyear, COUNT(race)

FROM rawdata

WHERE race = 200

GROUP BY statefip, countyear

ORDER BY countyear, statefip;

CREATE TABLE whitecount(

serialno SERIAL PRIMARY KEY UNIQUE,

statefip INT,

countyear INT,

whitecounts INT);

INSERT INTO whitecount(statefip, countyear, whitecounts)

SELECT statefip, countyear, COUNT(race)

FROM rawdata

WHERE race = 100

GROUP BY statefip, countyear

ORDER BY countyear, statefip;

CREATE TABLE othercount(

serialno SERIAL PRIMARY KEY UNIQUE,

statefip INT,

countyear INT,

othercounts INT);

INSERT INTO othercount(statefip, countyear, othercounts)

SELECT statefip, countyear, COUNT(race)

FROM rawdata

WHERE race = 700

GROUP BY statefip, countyear

ORDER BY countyear, statefip;

CREATE TABLE totalcount(

serialno SERIAL PRIMARY KEY UNIQUE,

statefip INT,

countyear INT,

totalcounts INT);

INSERT INTO totalcount(statefip, countyear, totalcounts)

SELECT statefip, countyear, COUNT(race)

FROM rawdata

GROUP BY statefip, countyear

ORDER BY countyear, statefip;

CREATE TABLE finalracedata(

serialno SERIAL PRIMARY KEY UNIQUE,

statefip INT,

countyear INT,

blackcounts INT,

whitecounts INT,

othercounts INT,

totalcounts INT,

blackpct NUMERIC,

whitepct NUMERIC,

otherpct NUMERIC

);

INSERT INTO finalracedata(statefip, countyear, blackcounts, whitecounts, othercounts, totalcounts,

blackpct, whitepct, otherpct)

SELECT blackcount.statefip, blackcount.countyear, blackcount.blackcounts,

whitecount.whitecounts, othercount.othercounts, totalcount.totalcounts,

100\*(blackcount.blackcounts/totalcount.totalcounts) AS blackpct,

100\*(whitecount.whitecounts/totalcount.totalcounts) AS whitepct,

100\*(othercount.othercounts/totalcount.totalcounts) AS otherpct

FROM totalcount

INNER JOIN whitecount

ON whitecount.serialno = totalcount.serialno

INNER JOIN blackcount

ON blackcount.serialno = whitecount.serialno

INNER JOIN othercount

ON othercount.serialno = blackcount.serialno

ORDER BY blackcount.countyear, blackcount.statefip;

/\*Creating the known income values for each state\*/

/\*Creating a table for all areas in each state in each year.\*/

CREATE TABLE finalareas(

area INT,

statefip varchar(100),

serialno SERIAL PRIMARY KEY UNIQUE);

INSERT INTO finalareas(

SELECT area, statefip FROM allareas

ORDER BY statefip);

INSERT INTO finalareas(

SELECT area, statefip FROM allareas

ORDER BY statefip);

INSERT INTO finalareas(

SELECT area, statefip FROM allareas

ORDER BY statefip);

INSERT INTO finalareas(

SELECT area, statefip FROM allareas

ORDER BY statefip);

/\*Creating final clean demographic data table for each state in each year.\*/

INSERT INTO finalpopulationdata(statefip, countyear, population, area)

SELECT rawpopulationdata.statefip, rawpopulationdata.countyear, rawpopulationdata.population, finalareas.area

FROM finalareas

FULL JOIN rawpopulationdata

ON finalareas.serialno = rawpopulationdata.serialno

/\*Creating table for values which are not 999999999\*/

CREATE TABLE knownincomes(

count INT,

avg INT,

countyear INT,

statefip INT);

INSERT INTO knownincomes(count, avg, countyear, statefip)

SELECT COUNT(inctot), AVG(inctot), countyear, statefip

FROM rawdata

WHERE inctot < 999999999

GROUP BY statefip, countyear

ORDER BY countyear, statefip;

/\*Creating table for poverty values\*/

CREATE TABLE povincomes(

serialno SERIAL PRIMARY KEY UNIQUE,

countyear int,

statefip int,

count int);

INSERT INTO povincomes(countyear, statefip, count)

SELECT countyear, statefip, COUNT(inctot) FROM rawdata

WHERE (countyear = 1980 AND inctot < 4160) OR (countyear = 1981 AND inctot < 4620) OR (countyear = 1982 AND inctot < 4901)

OR (countyear = 1983 AND inctot < 5061)

GROUP BY statefip,countyear

ORDER BY countyear, statefip;