Database Design

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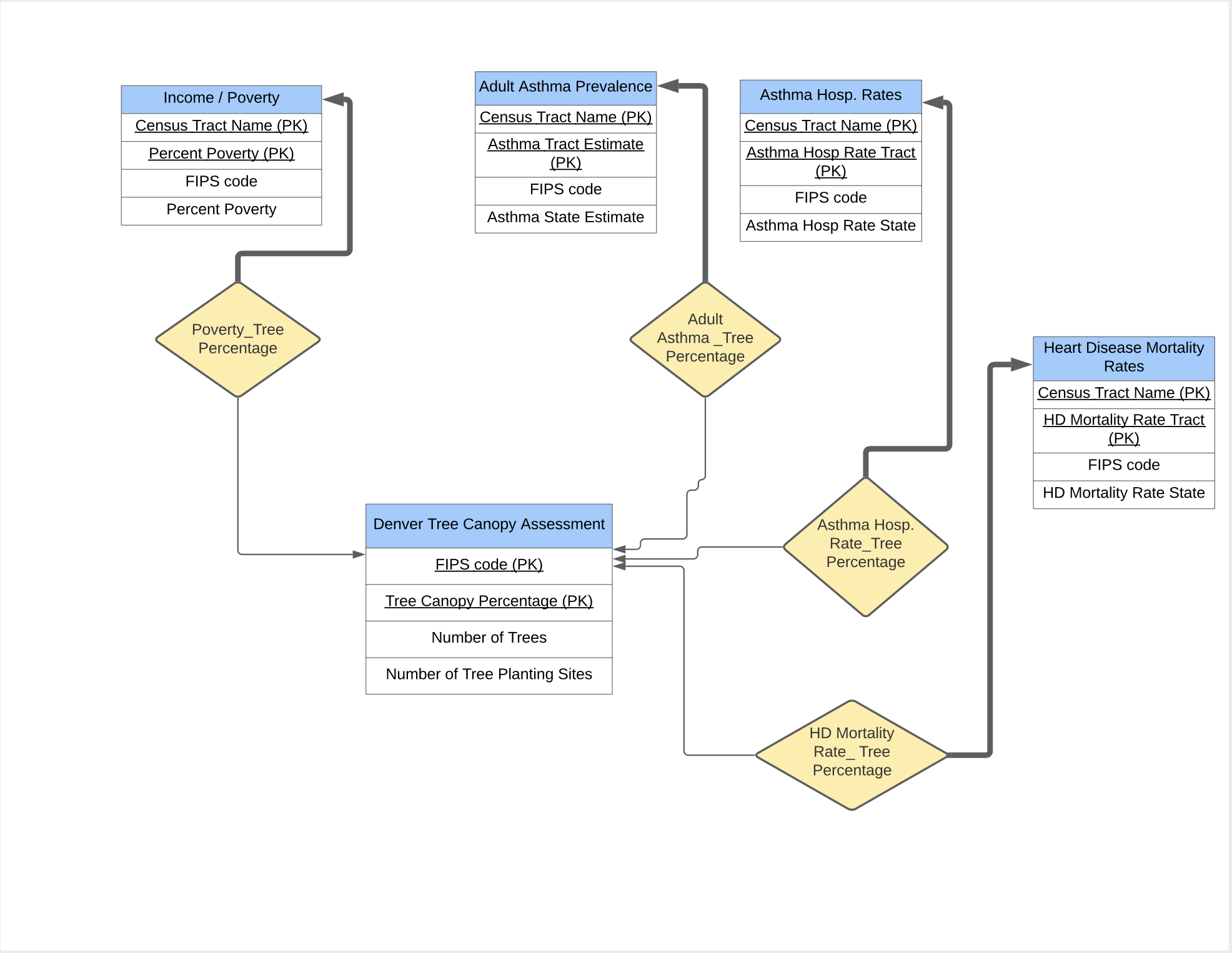
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Introduction

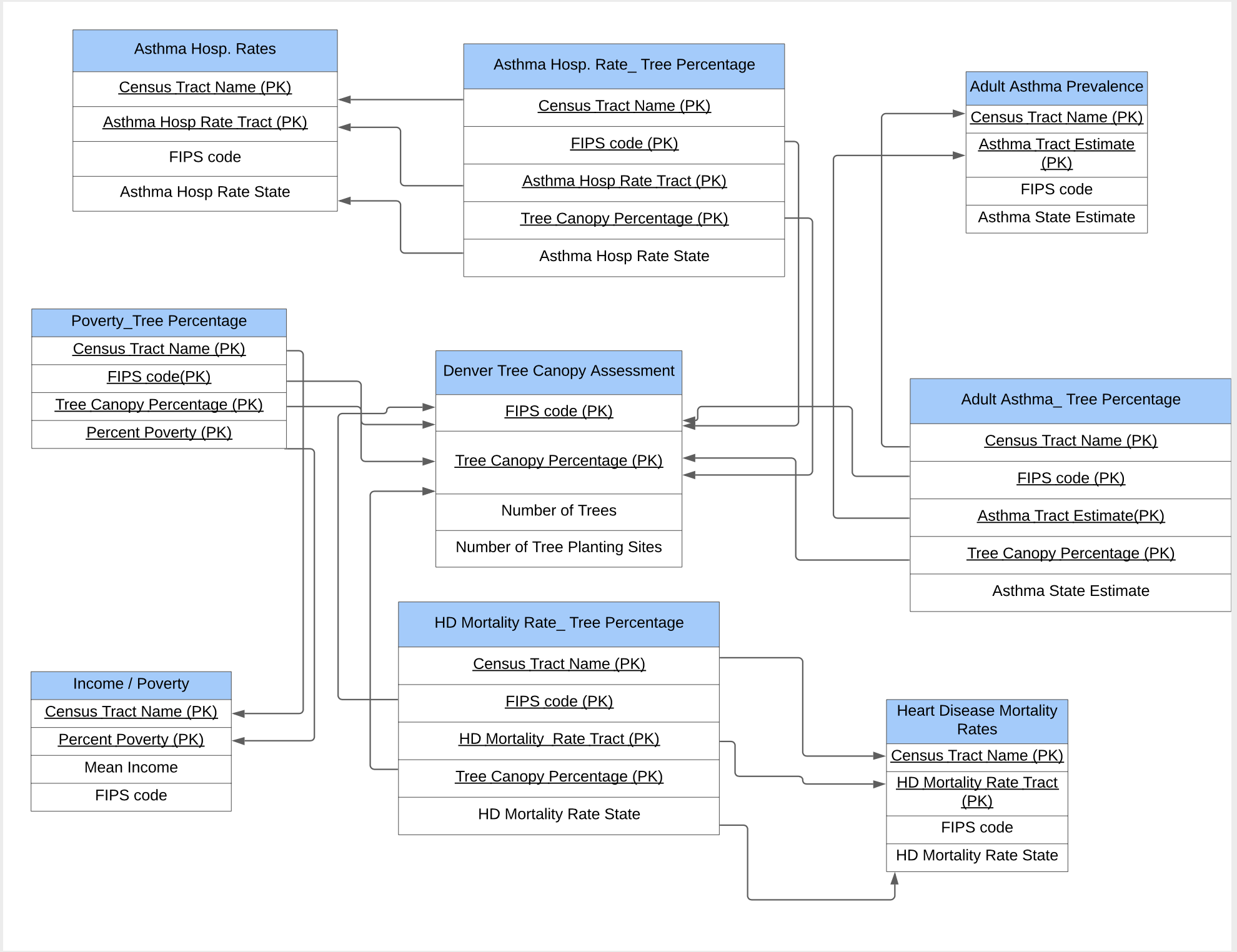
The purpose of this document is to give an overview of the creation and use of the database that was created as a part of a larger project. This database was used to organize and store the data that was needed for further analysis of how tree canopy coverage affects specific public health outcomes. These analyses are performed and documented in more detail in other corresponding documents. PostgreSQL was used to create tables and relations that correspond to data that was pulled from various government websites. The data was inserted into the various tables and relations that are described in the ER model and Relational Database Schema diagram. This document serves as a compilation of the steps taken to design and create the database schema, manipulate the data in the database, and access the database using application code in python.

Data and Functional Requirements

* Store information on income and poverty levels that record census tract names, percent of people in poverty, FIPS codes, and mean household income. This information will be uniquely identifiable by the combination of census tract names and percent poverty.
* Store information about tree canopy assessment in the city of Denver in various census tracts, specifically, FIPS codes; tree canopy percentage; number of trees; and number of tree planting sites. These records will be uniquely identifiable by FIPS codes and tree canopy percentage.
* Store information regarding Adult Asthma Prevalence in the city of Denver using census tract names, adult asthma estimates for census tracts, FIPS codes, and adult asthma estimates for the state of Colorado. These records will be uniquely identifiable by census tract names and the adult asthma tract estimates.
* Store information regarding asthma hospitalization rates for the city of Denver using FIPS codes, census tract names, asthma hospitalization rates by tract, and the asthma hospitalization rate of the state of Colorado. The unique identifiers will be census tract names and asthma hospitalization rates for the tract.
* Store information on heart disease mortality rates for the city of Denver. The records should have information regarding census tract names, heart disease mortality rates for the various tracts, FIPS codes, and heart disease mortality rate for the state of Colorado.
* Record information about relationships between poverty and tree canopy coverage. For every census tract name and percentage of poverty in the income poverty entity, the corresponding FIPS code and tree canopy percentage for that census tract from the Denver tree canopy assessment entity will be recorded for analysis.
* Record information about relationships regarding adult asthma prevalence and tree canopy coverage. For every census tract name and tract level adult asthma estimate in the adult asthma prevalence entity, the corresponding FIPS code and tree canopy percentage for that census tract from the Denver tree canopy assessment entity will be recorded for analysis.
* Record information about relationships regarding asthma hospitalization rates and tree canopy coverage. For every census tract name and tract level asthma hospitalization rate in the asthma hospitalization rate entity, the corresponding FIPS code and tree canopy percentage for that census tract from the Denver tree canopy assessment entity will be recorded for analysis.
* Record information about relationships regarding heart disease mortality and tree canopy coverage. For every census tract name and tract level heart disease mortality rate in the heart disease mortality rates entity, the corresponding FIPS code and tree canopy percentage for that census tract from the Denver tree canopy assessment entity will be recorded for analysis.

ER Model Diagram 

Relational Database Schema Diagram



SQL DDL

These are the SQL statements that were used to create the tables and relations described in the two previous diagrams.

CREATE TABLE Denver\_Canopy\_Assessment (

FIPS\_code VARCHAR(20),

tree\_canopy\_pct NUMERIC(5,2),

num\_trees NUMERIC (10,2),

num\_plant\_sites NUMERIC (10,2),

CONSTRAINT den\_can\_assess\_pk PRIMARY KEY (FIPS\_code, tree\_canopy\_pct)

);

CREATE TABLE Income\_Poverty (

census\_tract\_name VARCHAR(20),

percent\_poverty NUMERIC(5,2),

mean\_income NUMERIC(12,2) NOT NULL,

FIPS\_code VARCHAR(20),

CONSTRAINT income\_poverty\_pk PRIMARY KEY (census\_tract\_name, percent\_poverty)

);

CREATE TABLE Asthma\_Hospt\_Rates(

census\_tract\_name VARCHAR (20),

asthma\_tract\_hosp\_rate NUMERIC (10,2),

FIPS\_code VARCHAR (20),

asthma\_state\_hosp\_rate NUMERIC (10,2),

CONSTRAINT asthma\_hosp\_rate\_pk PRIMARY KEY (census\_tract\_name, asthma\_tract\_hosp\_rate)

);

CREATE TABLE Heart\_Disease\_Mort\_Rates(

census\_tract\_name VARCHAR (20),

HD\_tract\_mort\_rate NUMERIC (10,2),

FIPS\_code VARCHAR (20),

HD\_state\_mort\_rate NUMERIC (10,2),

CONSTRAINT heart\_disease\_mort\_pk PRIMARY KEY (census\_tract\_name, HD\_tract\_mort\_rate)

);

CREATE TABLE Adult\_Asthma\_Prevalence (

census\_tract\_name VARCHAR (20),

asthma\_tract\_estimate NUMERIC (10,2),

FIPS\_code VARCHAR(20),

asthma\_state\_estimate NUMERIC(10,2),

CONSTRAINT adult\_asthma\_prev\_pk PRIMARY KEY (census\_tract\_name, asthma\_tract\_estimate)

);

CREATE TABLE Poverty\_Tree\_pct (

census\_tract\_name VARCHAR (20),

FIPS\_code VARCHAR(20),

tree\_canopy\_pct NUMERIC(5,2),

percent\_poverty NUMERIC(5,2),

CONSTRAINT poverty\_tree\_pk PRIMARY KEY (census\_tract\_name, FIPS\_code, tree\_canopy\_pct, percent\_poverty),

CONSTRAINT poverty\_tree\_fk1 FOREIGN KEY (FIPS\_code, tree\_canopy\_pct)

REFERENCES Denver\_Canopy\_Assessment (FIPS\_code, tree\_canopy\_pct),

CONSTRAINT poverty\_tree\_fk2 FOREIGN KEY (census\_tract\_name, percent\_poverty)

REFERENCES Income\_Poverty (census\_tract\_name, percent\_poverty)

);

CREATE TABLE Asthma\_Hosp\_Tree\_pct (

census\_tract\_name VARCHAR (20),

FIPS\_code VARCHAR(20),

asthma\_tract\_hosp\_rate NUMERIC (10,2),

tree\_canopy\_pct NUMERIC(5,2),

asthma\_state\_hosp\_rate NUMERIC (10,2),

CONSTRAINT Asthma\_Hosp\_Tree\_pct\_pk PRIMARY KEY (census\_tract\_name, FIPS\_code, asthma\_tract\_hosp\_rate, tree\_canopy\_pct),

CONSTRAINT Asthma\_Hosp\_Tree\_pct\_fk1 FOREIGN KEY (census\_tract\_name, asthma\_tract\_hosp\_rate) REFERENCES Asthma\_Hospt\_Rates (census\_tract\_name, asthma\_tract\_hosp\_rate),

CONSTRAINT Asthma\_Hosp\_Tree\_pct\_fk2 FOREIGN KEY (FIPS\_code, tree\_canopy\_pct)

REFERENCES Denver\_Canopy\_Assessment (FIPS\_code, tree\_canopy\_pct)

);

CREATE TABLE Asthma\_Prevalence\_Tree\_pct (

census\_tract\_name VARCHAR (20),

FIPS\_code VARCHAR(20),

asthma\_tract\_estimate NUMERIC (10,2),

tree\_canopy\_pct NUMERIC(5,2),

asthma\_state\_estimate NUMERIC (10,2),

CONSTRAINT asthma\_prevalence\_tree\_pct\_pk PRIMARY KEY (census\_tract\_name, FIPS\_code, asthma\_tract\_estimate, tree\_canopy\_pct),

CONSTRAINT asthma\_prevalence\_tree\_pct\_fk1 FOREIGN KEY (census\_tract\_name, asthma\_tract\_estimate)

REFERENCES Adult\_Asthma\_Prevalence (census\_tract\_name, asthma\_tract\_estimate),

CONSTRAINT asthma\_prevalence\_tree\_pct\_fk2 FOREIGN KEY (FIPS\_code, tree\_canopy\_pct)

REFERENCES Denver\_Canopy\_Assessment (FIPS\_code, tree\_canopy\_pct)

);

CREATE TABLE HD\_mort\_tree\_pct (

census\_tract\_name VARCHAR (20),

FIPS\_code VARCHAR(20),

HD\_tract\_mort\_rate NUMERIC (10,2),

tree\_canopy\_pct NUMERIC(5,2),

HD\_state\_mort\_rate NUMERIC (10,2),

CONSTRAINT HD\_mort\_tree\_pct\_pk PRIMARY KEY (census\_tract\_name, FIPS\_code, HD\_tract\_mort\_rate, tree\_canopy\_pct),

CONSTRAINT HD\_mort\_tree\_pct\_fk1 FOREIGN KEY (census\_tract\_name, HD\_tract\_mort\_rate)

REFERENCES Heart\_Disease\_Mort\_Rates (census\_tract\_name, HD\_tract\_mort\_rate),

CONSTRAINT HD\_mort\_tree\_pct\_fk2 FOREIGN KEY (FIPS\_code, tree\_canopy\_pct)

REFERENCES Denver\_Canopy\_Assessment (FIPS\_code, tree\_canopy\_pct)

);

SQL DML

These are the statements used to manipulate the data into the tables and relations created in the database.

INSERT INTO Income\_Poverty (census\_tract\_name, percent\_poverty, mean\_income, FIPS\_code)

VALUES

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INSERT INTO Asthma\_Hospt\_Rates (census\_tract\_name, asthma\_tract\_hosp\_rate, FIPS\_code, asthma\_state\_hosp\_rate)

VALUES

('Census Tract 1.02', '646.47', '8031000102', '637.8'),

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('Census Tract 119.03', '8031011903', '36.13', '7.10'),

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('Census Tract 120.10', '8031012010', '12.05', '2.70'),

('Census Tract 120.14', '8031012014', '19.50', '7.60'),

('Census Tract 154', '8031015400', '25.01', '16.90'),

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('Census Tract 156', '8031015600', '17.33', '38.40'),

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('Census Tract 9800', '8031980000', '1.27', '8.90')

INSERT INTO HD\_mort\_tree\_pct (census\_tract\_name, FIPS\_code, HD\_tract\_mort\_rate, tree\_canopy\_pct, HD\_state\_mort\_rate)

VALUES

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('Census Tract 3.02', '8031000302', '142.88', '30.96', '128.61'),

('Census Tract 3.03', '8031000303', '273.81', '35.41', '128.61'),

('Census Tract 4.01', '8031000401', '132.14', '29.45', '128.61'),

('Census Tract 4.02', '8031000402', '227.40', '27.63', '128.61'),

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('Census Tract 9.02', '8031000902', '159.17', '24.63', '128.61'),

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('Census Tract 24.03', '8031002403', '271.52', '14.06', '128.61'),

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('Census Tract 32.01', '8031003201', '238.05', '35.90', '128.61'),

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('Census Tract 40.06', '8031004006', '113.87', '39.86', '128.61'),

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('Census Tract 41.06', '8031004106', '79.41', '4.93', '128.61'),

('Census Tract 41.07', '8031004107', '82.24', '4.90', '128.61'),

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('Census Tract 51.02', '8031005102', '155.06', '39.69', '128.61'),

('Census Tract 51.04', '8031005104', '154.44', '21.53', '128.61'),

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('Census Tract 53', '8031005300', '126.94', '20.84', '128.61'),

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('Census Tract 55.03', '8031005503', '173.45', '29.91', '128.61'),

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('Census Tract 68.09', '8031006809', '147.23', '26.06', '128.61'),

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('Census Tract 68.11', '8031006811', '401.18', '26.74', '128.61'),

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('Census Tract 68.13', '8031006813', '198.69', '27.14', '128.61'),

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INSERT INTO Asthma\_Hosp\_Tree\_pct(census\_tract\_name, FIPS\_code, asthma\_tract\_hosp\_rate, tree\_canopy\_pct, asthma\_state\_hosp\_rate)

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('Census Tract 28.03', '8031002803', '447.67', '33.54', '637.80'),

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INSERT INTO Asthma\_Prevalence\_Tree\_pct (census\_tract\_name, FIPS\_code, asthma\_tract\_estimate, tree\_canopy\_pct, asthma\_state\_estimate)

VALUES

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Queries (Examples)

Some examples of queries that were used to access the data are represented here. These SQL statements were actually executed and used in the jupyter notebook using python. That application code can be seen later in this document, as well as in the corresponding .ipynb file that corresponds to this document. This is not an exhaustive list of the Queries that were used to access the database for analysis.

Write a query that will select all records from the Denver canopy assessment entity set in order to create a table that can be used for further analysis

SELECT \*

FROM Denver\_canopy\_assessment

Write a query to extract the average tree canopy percentage for the entire city.

SELECT AVG(tree\_canopy\_pct) AS avg\_canopy

FROM Denver\_Canopy\_Assessment

Write a query that extracts the minimum and maximum tree canopy percentages that we are seeing throughout the city. These numbers will be used as the upper and lower limits on the range of tree canopy percentages that we use with trained regression models to predict where we are seeing positive health outcomes.

SELECT MIN(tree\_canopy\_pct) AS min\_pct, MAX(tree\_canopy\_pct) AS max\_pct

FROM Denver\_Canopy\_Assessment

Write a query that shows where in the city, based on census name and FIPS code, we are seeing the estimated prevalence of adult asthma on the tract level that is below the statewide estimate, and show what the tree canopy percentage is for these census tracts.

SELECT Denver\_canopy\_assessment.FIPS\_code, census\_tract\_name, Asthma\_Prevalence\_Tree\_pct.tree\_canopy\_pct, asthma\_tract\_estimate

FROM Denver\_canopy\_assessment, Asthma\_Prevalence\_Tree\_pct

WHERE asthma\_tract\_estimate < asthma\_state\_estimate

AND Denver\_canopy\_assessment.FIPS\_code = Asthma\_Prevalence\_Tree\_pct.FIPS\_code

Write a query to show where in the city based on census tract name and FIPS code are we seeing heart disease mortality rates that are lower than the state average, also show what the tree canopy percentage is in these specific tracts.

SELECT Denver\_canopy\_assessment.FIPS\_code, census\_tract\_name, HD\_mort\_tree\_pct.tree\_canopy\_pct, HD\_tract\_mort\_rate

FROM Denver\_canopy\_assessment, HD\_mort\_tree\_pct

WHERE HD\_tract\_mort\_rate < HD\_state\_mort\_rate

AND Denver\_canopy\_assessment.FIPS\_code = HD\_mort\_tree\_pct.FIPS\_code

Write a query that produces a result of all the census tract names, FIPS code, and tree canopy percentage of the tracts that have asthma hospitalization rates lower than the state average. This result can be used to visualize where we are seeing positive health outcomes.

SELECT Denver\_canopy\_assessment.FIPS\_code, census\_tract\_name, Asthma\_Hosp\_Tree\_pct.tree\_canopy\_pct, asthma\_tract\_hosp\_rate

FROM Denver\_canopy\_assessment, Asthma\_Hosp\_Tree\_pct

WHERE asthma\_tract\_hosp\_rate < asthma\_state\_hosp\_rate

AND Denver\_canopy\_assessment.FIPS\_code = Asthma\_Hosp\_Tree\_pct.FIPS\_code

Write a query that extracts the average estimate of adult asthma prevalence in the various census tracts. This value will be used to replace missing tract estimates in the data set where there weren’t enough people to form an estimate.

SELECT AVG(asthma\_tract\_estimate) AS avg\_tract\_est

FROM Asthma\_Prevalence\_Tree\_Pct

Create a query that produces a table that shows a record of mean income, census tract name, and tree canopy percentage for each of the FIPS codes present in both the income poverty entity set and the Denver Canopy Assessment entity set. This result can be used to analyze any relationship between mean income and tree canopy coverage.

SELECT mean\_income, Denver\_canopy\_assessment.FIPS\_code, census\_tract\_name, tree\_canopy\_pct

FROM Denver\_canopy\_assessment, income\_poverty

WHERE Denver\_canopy\_assessment.FIPS\_code = income\_poverty.FIPS\_code

Application Code

This is the application code used to access and interact with the database. The language used was python, and it was executed in a jupyter notebook. Below is an example of the application code. In this example taken from the jupyter notebook, the database is accessed with the psycopg2 package from python. A query is executed from the database using a cursor object, and a dataframe is created from the query results and printed to the screen The .ipynb file that corresponds to this document has the complete notebook that interfaces with this database for analysis.

import psycopg2

import pandas as pd

import numpy as np

import matplotlib as mpl

import seaborn as sns

import scipy.stats

#create object with connect method for connection to Database #with necessary Parameters

conn = psycopg2.connect(host="localhost", port = 5432, database="Denver", user="postgres", password="0923BatCave0726")

#Create Cursor Object to run SQL queries to the database

cur = conn.cursor()

cur.execute('''SELECT \* FROM denver\_canopy\_assessment''')

tree\_canopy\_result = cur.fetchall()

tree\_canopy\_df = pd.DataFrame(tree\_canopy\_result)

#rename Columns

tree\_atts = { 0: "FIPS code",

1: "tree canopy pct",

2: "num trees",

3: "num plant sites"

}

tree\_canopy\_df = tree\_canopy\_df.rename(columns = tree\_atts)

#change data types to run analysis

tree\_canopy\_df['FIPS code'] = tree\_canopy\_df['FIPS code'].astype(str)

tree\_canopy\_df['tree canopy pct'] = tree\_canopy\_df['tree canopy pct'].astype(float)

tree\_canopy\_df['num trees'] = tree\_canopy\_df['num trees'].astype(float)

tree\_canopy\_df['num plant sites'] = tree\_canopy\_df['num plant sites'].astype(float)

print(tree\_canopy\_df)