

To start the CLI download main.py and then open the terminal and navigate to the directory that holds the file. Then type the command “python main.py” to start.

Upon startup the CLI will then ask for the name of the database, the host, user, password, and port. All of these things should be found on the PostgreSQL management tool such as pgAdmin.

Quick note, most of the options will have ways to sort the output, this is fairly self explanatory as it will directly state how to sort by. Some of the options will ask the user to enter either an “a” or “d” for ascending or descending, and other times it will ask for a number for which option the user would like to use.

Another note, most of the options will also include an additional option at the bottom simply labeled “Go Back” which upon being selected will take the user back a page

Also go to the videos to see examples for each section

Once you have logged in, the CLI should then have 11 options to select from:

Weapons:

Upon opening up weapons there will be an additional two options to select from:

Amount of crimes by weapons:

In this option the CLI will output the weapon’s description and the amount of times each weapon was recorded as being used in a crime in that order.

List Weapons

In this option the CLI will output all the weapon’s codes and descriptions in that order.

Codes:

Upon opening up codes there will be an additional two options to select from:

Amount of crimes by codes:

In this option the CLI will output the crime code descriptions and the amount of times that code was recorded in the reports in that order.

List all codes:

In this option the CLI will output everything in the Codes tables therefore in the order of Code, Code Description, Mocodes, All Codes

Location:

Upon opening up location there will be an additional two options to select from:

Location of most recent crimes:

In this option the CLI will ask the user to enter the amount of entries they would like, then it will sort them by the most recent times and output the given amount in the order: Latitude, Longitude, Location, Cross Street

List all location data:

In this option the CLI will output all the information that relates to the location of crimes: Latitude, Longitude, Location, Cross Street in that order

Area:

Upon opening up area there will be an additional three options to select from:

Count of crimes by areas:

In this option the CLI will output the area name and the count of times that area was involved in a crime in that order

Count of crimes by premis:

In this option the CLI will output the name of the premis and the count of times that Premis was involved in a crime in that order

List all area data:

In this option the CLI will output all the information in the Area table in the order: Area Code, Area Description, Premis Code, Premis Description

Police:

Upon opening up police there will be an additional two options to select from:

Count of times police districts reports to a crime:

In this option the CLI will output the reporting district number and the count of times they report to a crime in that order

List all police districts and case number:

In this option the CLI will output the case number (DR_NO) and the reporting police district in that order

Victims:

Upon opening up victim there will be an additional three options to select from:

Victim count by sex:

In this option the CLI will output the sex of the victims and the count of times that sex was a victim of a crime

Victim count by descent:

In this option the CLI will output the victim's descent and the count of times that descent was a victim of a crime

List all victim data:

In this option the CLI will output the case number, victim's age, victim's sex, victim's descent in that order

Crimes:

Upon opening up crimes there will be an additional 10 options to select from:

All crime data:

In this option the CLI will output all the data from the Crimes table, VicLoc table, Status table, Area table, Codes table, and Weapon table in that order

Crimes by date reported:

In this option the CLI will output everything in the Crime table ordered by the date reported

Crimes by date committed:

In this option the CLI will output everything in the Crime table ordered by the date committed

Crimes by time committed:

In this option the CLI will output everything in the Crime table ordered by the time committed

Crimes by victim statistics:

Upon opening up this option there will be six more options to select from:

Crimes on victims of specific descent:

In this option the CLI will ask the user which descent they would like to see then output everything in the Crime table with a victim of that descent

Crimes on victims of specific age:

In this option the CLI will ask the user for greater than, less than, or equal to then ask to enter an age. Then it will output everything in the Crime table with victims that fit that condition

Crimes on victims of specific sex:

In this option the CLI will ask the user for which sex then output everything in the Crime table with a victim recorded of that sex

Crimes and victims ordered by age:

In this option the CLI will output everything from Crime table and all victim data ordered by the age

Crimes and victims ordered by descent:

In this option the CLI will output everything from Crime table and all victim data ordered by the descent

Crimes and victims ordered by sex:

In this option the CLI will output everything from Crime table and all victim data ordered by the sex

Crimes by location statistics:

In this option the CLI will ask the user how they want the data sorted then list everything in the Crime table, and all location data sorted as requested

Crimes by status:

In this option the CLI will ask the user which code they would like to see and then list everything in the Crime table and Status table that have the selected status

Crimes by area statistics:

In this option the CLI will ask the user how they would like the data sorted by data in the Area table then output everything in the Crime table sorted as requested

Crimes by code statistics:

In this option the CLI will ask the user how they would like the data sorted by data in the Codes table then output everything in the Crime table sorted as requested

Crimes by weapon statistics:

In this option the CLI will ask the user what kind of weapons they would like to see then output everything from the Crime and Weapon tables that fit the weapon's code

Insert:

Upon opening up insert the CLI will ask the user which table they would like to insert to.
Then it will iterate through each column in the table listing what the column is and ask the user to type in the data they would like to insert specifying to type "-1" for NULL.
Then it will insert the data to the requested table

Update:

Upon opening up update the CLI will ask the user which table they would like to update.
After selecting it will then ask which column the user would like to update.
Then which column they would like to use for the condition (WHERE COLUMN=...)
Then it will ask for the new value or the value to update to.
Then it will ask for the value of the condition.
Then it will update the requested data.

Delete:

Upon opening up delete the CLI will ask the user which table they would like to delete from.
Then it will ask which column the user would like to use for the condition.
Then it will ask for the value of the condition.
Then it will delete all rows from the table that meet that condition.