***MNPD DF Columns:***

|  |
| --- |
|  |
| Column Name | Description | Type |
| **Primary Key** | Unique identifier for each record | Plain Text |  |
| **Incident Number** | MNPD incident number for the incident | Number |  |
| **Report Type** | How the report was initiated | Plain Text |  |
| **Report Type Description** | Text description of the report type | Plain Text |  |
| **Incident Status Code** | Status of the incident | Plain Text |  |
| **Incident Status Description** | Text description of the incident status | Plain Text |  |
| **Investigation Status** | Indicates whether the investigation is open or closed | Plain Text |  |
| **Incident Occurred** | Date and time the incident occurred | Date & Time |  |
| **Incident Reported** | Date and time the incident was reported | Date & Time |  |
| **Incident Location** | Approximate location where the incident occurred | Plain Text |  |
| **Latitude** | Rounded latitude of the incident | Number |  |
| **Longitude** | Rounded longitude of the incident | Number |  |
| **ZIP Code** | ZIP Code where the incident occurred | Number |  |
| **RPA** | MNPD reporting zone of the incident | Plain Text |  |
| **Zone** | MNPD zone / patrol area where the incident occurred | Plain Text |  |
| **Location Code** | Type of location where the incident occurred | Number |  |
| **Location Description** | Text description of the incident location type | Plain Text |  |
| **Offense Number** | Number assigned to the offense | Number |  |
| **Offense NIBRS** | National Incident-Based Reporting System code for the offense type | Plain Text |  |
| **Offense Description** | Text description of the offense type | Plain Text |  |
| **Weapon Primary** | Type of weapon used during the incident | Plain Text |  |
| **Weapon Description** | Text description of the weapon type | Plain Text |  |
| **Victim Number** | Number assigned to the victim | Number |  |
| **Domestic Related** | Indicates whether the incident involves a domestic relationship between the victim and the suspect | Checkbox |  |
| **Victim Type** | Type of victim | Plain Text |  |
| **Victim Description** | Text description of the victim type | Plain Text |  |
| **Victim Gender** | Gender of the victim | Plain Text |  |
| **Victim Race** | Race of the victim | Plain Text |  |
| **Victim Ethnicity** | Ethnicity of the victim | Plain Text |  |
| **Victim County Resident** | Indicates whether the victim is a resident of Davidson County | Plain Text |  |
| **Mapped Location** | Rounded combined latitude and longitude of the incident for mapping purposes | Point |  |

**MNPD DF Columns to keep:**

Incident Number

Incident Reported

Incident Location

Latitude

Longitude

Zip Code

Zone

Offense NIBRS

Offense Description

Weapon Description

Domestic Related

Map

**Directional Notes:**

Remove the time/extract the date from the incident reported column on the 2020-2021 df and convert the date to pd datetime. Convert the covid df to pd datetime and join the df’s together to see how cases increased per day and see what crimes increased per day.

Create new month column for mnpd and covid df so I can breakdown monthly results.

Create a new day column also

In mnpd df, create a dictionary of NIBRS codes

Look at 2019 and 2020 chart for NIBRS Codes and make sure all are in the dictionary.

Convert Memphis pd data to mimick mnpd data

Scale down covid df

**MNPD DF Columns Removed**

Primary Key

Incident Occurred

Report Type

Report Type Description

Incident Status Code

Incident Status Description

Investigation Status

RPA

Location Code

Location Description

Offense Number

Weapon Primary

Victim Number

Victim Type

Victim Description

Victim Gender

Victim Race

Victim Ethnicity

Victim County Resident

Covid data link:

<https://www.tn.gov/content/dam/tn/health/documents/cedep/novel-coronavirus/datasets/Public-Dataset-Daily-Case-Info-5-7-2021.XLSX>

https://www.tn.gov/content/dam/tn/health/documents/cedep/novel-coronavirus/datasets/Public-Dataset-Daily-Case-Info.XLSX

https://data.nashville.gov/Police/Metro-Nashville-Police-Department-Incidents/2u6v-ujjs

**List of DF to export:**

Mnpd2

Mnpd3

Nash19

Nash19test

Nash19month

Nash20

Nash20test

Nash20month

Nash21

twentyonemonth

Twentyonetest

Covid2

Covid20

Covid21

Cov20month

Cov21month

Cov\_crime20\_fix

Cov\_crime21\_fix

As of 11/14….318 days into the year

In 2019 = 10,686 domestic-related. Avg = 29.3/day

In 2020 = 10,632 domestic-related. Avg = 29.1/day

In 2021 = 9625 domestic-related. 318 days in year as of data pul. Avg = 30.3/day

Total 2019 reported incidents = 78,166, avg = 214.2/day

Total 2020 reported incidents = 77,860, avg = 213.3/day

Total 2021 reported incidents = 64,640, avg = 203.3/day