

Database architecture

- The database plan to use for storage.

offline postgres

- Where the data is loaded from

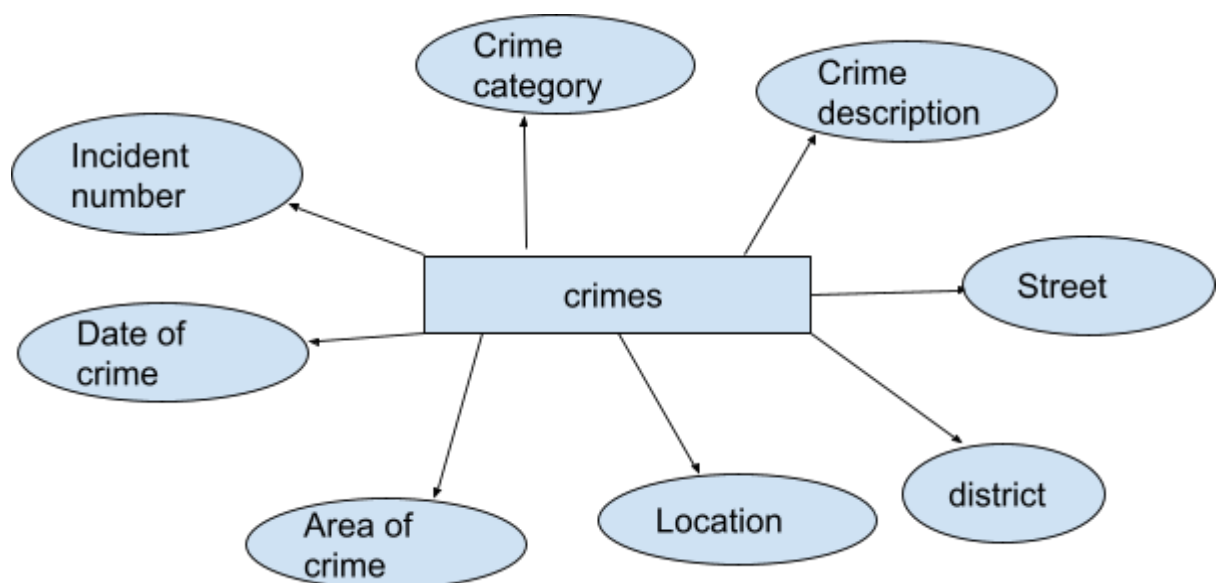
Use a database-query of Database (underconsideration) to parse the data file and feed it in to the associated data base table

- **Data Cleaning(transformations done to load the data to the database)**

- ❖ Convert the 'Occurred_On_Date' column into a datetime format
- ❖ Fill 'N' in the 'Shooting' column, assume 'N' were not shooting.
- ❖ Removed the remaining Null/NaN values as it is small part of the crime data set
- ❖ Drop duplicates Rows in the dataset
- ❖ Replace " " in 'reporting_area' column to 0, means reporting_area not known

After cleaning 304637 rows left

- E-R diagram



- **Connections to/from the database for Time Series Analysis module**

- Connected to the database with credential
- Use query to retrieve from database
- Fetch all row from the table
- Commit all changes in the database
- Close the connection