DROP SCHEMA IF EXISTS raw CASCADE ;  
CREATE SCHEMA raw;  
  
DROP TABLE IF EXISTS raw.rawCrimes ;  
CREATE TABLE raw.rawCrimes  
(  
 id text,  
 fecha text,  
 direccion text,  
 icur text,  
 primaryDescription text,  
 secondaryDescription text,  
 locationDescription text,  
 arrest text,  
 domestic text,  
 beat numeric,  
 ward numeric,  
 clasifiacionFBI text,  
 xCoordinate text,  
 yCoordinate text,  
 latitude numeric,  
 longitude numeric,  
 location text  
);  
/\*  
Despues de corres el código de arriba, abrir la consola, conecatrse a la base de datos y correr  
\copy raw.rawCrimes FROM 'C:\\Users\\emilia\\OneDrive - Escuela Moderna Americana\\Escritorio\\MAE\\Crimes\_-\_One\_year\_prior\_to\_present\_20240410.csv' WITH (FORMAT CSV, HEADER true, DELIMITER ',');  
\*/  
  
/\*  
Despues de corres el código de arriba, abrir la consola, conecatrse a la base de datos y correr  
A\copy raw.rawCrimes FROM 'download\file\path.csv' WITH (FORMAT CSV, HEADER true, DELIMITER ',');  
\*/  
  
DROP SCHEMA IF EXISTS cleaning CASCADE;  
CREATE SCHEMA cleaning;  
  
DROP TABLE IF EXISTS cleaning.crimesJuego;  
CREATE TABLE cleaning.crimesJuego(  
 id text,  
 fecha text,  
 direccion text,  
 icur text,  
 primaryDescription text,  
 secondaryDescription text,  
 locationDescription text,  
 arrest text,  
 domestic text,  
 beat numeric,  
 ward numeric,  
 clasifiacionFBI text,  
 xCoordinate text,  
 yCoordinate text,  
 latitude numeric,  
 longitude numeric,  
 location text  
);  
INSERT INTO cleaning.crimesJuego  
select \*  
FROM raw.rawCrimes  
LIMIT 50000;  
  
UPDATE cleaning.crimesJuego  
SET direccion = *UPPER*(direccion),  
 primaryDescription = *upper*(primaryDescription),  
 secondaryDescription = *UPPER*(secondaryDescription),  
 locationDescription = *UPPER*(locationDescription),  
 arrest = *upper*(arrest),  
 domestic = *upper*(domestic),  
 clasifiacionFBI = *upper*(clasifiacionFBI);  
DROP TABLE IF EXISTS cleaning.crimes2;  
CREATE TABLE cleaning.crimes2 (  
 id text,  
 fecha text,  
 direccion text,  
 icur text,  
 primaryDescription text,  
 secondaryDescription text,  
 locationDescription text,  
 arrest text,  
 domestic text,  
 beat numeric,  
 ward numeric,  
 clasifiacionFBI text,  
 xCoordinate text,  
 yCoordinate text,  
 latitude numeric,  
 longitude numeric,  
 location text  
);  
INSERT INTO cleaning.crimes2  
SELECT DISTINCT id, fecha, direccion, icur, primaryDescription, secondaryDescription, locationDescription, arrest, domestic, beat, ward, clasifiacionFBI,xCoordinate, yCoordinate, latitude, longitude  
FROM cleaning.crimesJuego;  
  
DROP TABLE IF EXISTS cleaning.crimesjuego;  
  
UPDATE cleaning.crimes2  
SET locationdescription =  
 CASE  
 WHEN locationdescription ILIKE '%PARKING LOT%' THEN 'PARKING LOT'  
 WHEN locationdescription ILIKE '%AIRPORT%' THEN 'AIRPORT'  
 WHEN locationdescription ILIKE '%AUTO%' THEN 'AUTO'  
 WHEN locationdescription ILIKE '%COLLEGE%' THEN 'COLLEGE'  
 WHEN locationdescription ILIKE '%APARTMENT%' THEN 'APARTMENT'  
 WHEN locationdescription ILIKE '%HALLWAY%' THEN 'HALLWAY'  
 WHEN locationdescription ILIKE '%BUS%' THEN 'BUS'  
 WHEN locationdescription ILIKE '%PLATFORM%' THEN 'PLATFORM'  
 WHEN locationdescription ILIKE '%STATION%' THEN 'STATION'  
 WHEN locationdescription ILIKE '%TRACKS%' THEN 'TRACKS'  
 WHEN locationdescription ILIKE '%TRAIN%' THEN 'TRAIN'  
 WHEN locationdescription ILIKE '%DRIVEWAY%' THEN 'DRIVEWAY'  
 WHEN locationdescription ILIKE '%OTHER%' THEN 'OTHER'  
 WHEN locationdescription ILIKE '%RESIDENCE%' OR locationdescription ILIKE '%PORCH%' THEN 'RESIDENCE'  
 WHEN locationdescription ILIKE '%MEDICAL%' OR locationdescription ILIKE '%HOSPITAL%' THEN 'HOSPITAL'  
 WHEN locationdescription ILIKE '%SCHOOL%' THEN 'SCHOOL'  
 WHEN locationdescription ILIKE '%STORE%' THEN 'STORE'  
 WHEN locationdescription ILIKE '%VEHICLE%' THEN 'VEHICLE'  
 WHEN locationdescription ILIKE '%LOT%' THEN 'LOT'  
 WHEN locationdescription ILIKE '%OTHER%' THEN 'OTHER'  
 ELSE locationdescription  
 END;  
  
DROP TABLE IF EXISTS cleaning.crimes3;  
CREATE TABLE cleaning.crimes3 (  
 id varchar(10),  
 fecha text,  
 direccion varchar(100),  
 icur varchar(4),  
 primaryDescription varchar(50),  
 secondaryDescription varchar(100),  
 locationDescription varchar(100),  
 arrest varchar(1),  
 domestic varchar(1),  
 beat smallint,  
 ward smallint,  
 clasifiacionFBI varchar(5),  
 xCoordinate integer,  
 yCoordinate integer,  
 latitude numeric,  
 longitude numeric  
) ;  
INSERT INTO cleaning.crimes3  
SELECT id, fecha, direccion, icur, primarydescription, secondarydescription, locationdescription, arrest, domestic, *CAST*(beat as smallint), *CAST*(ward as smallint),  
 clasifiacionfbi, *CAST*(xcoordinate AS integer), *CAST*(ycoordinate as integer), latitude,longitude  
FROM cleaning.crimes2;  
DROP TABLE IF EXISTS cleaning.crimes2;  
  
  
--LIMPIEZA TABLA ICUR  
UPDATE cleaning.crimes3  
SET secondarydescription=  
 CASE  
 WHEN clasifiacionfbi ILIKE '08A' or clasifiacionfbi ILIKE '08B' THEN 'AGGRAVATED NO INJURY'  
 WHEN primaryDescription ILIKE '%ARSON%' THEN 'BY FIRE'  
 WHEN icur ILIKE '0498' or icur ILIKE '0462' THEN 'AGGRAVATED SERIOUS INJURY'  
 WHEN clasifiacionfbi ILIKE '04A' or clasifiacionfbi ILIKE '04B' THEN 'AGGRAVATED'  
 WHEN icur ILIKE '0630' or icur ILIKE '0610' or icur ILIKE '0620' then 'FORCIBLE AND UNLAWFUL ENTRY'  
 WHEN icur ILIKE '1480' or icur ILIKE '1478' then 'PROHIBITED PLACES'  
 WHEN icur ILIKE '1375' OR icur ILIKE '1345' OR icur ILIKE '1310' or icur ILIKE '1340' or icur ILIKE '1320' then 'TO PROPERTY / VANDALISM'  
 WHEN icur ILIKE '0261' or icur ILIKE '0263' or icur ILIKE '0265' or icur ILIKE '0264' or icur ILIKE '0262' or icur ILIKE '0271' or icur ILIKE '0273' or icur ILIKE '0275' THEN 'AGGRAVATED WITH DANGEROUS WEAPON'  
 WHEN icur ILIKE '0291' or icur ILIKE '0281' THEN 'NON-AGGRAVATED'  
 WHEN clasifiacionfbi ILIKE '10' THEN 'FORGERY AND COUNTERFEIT'  
 WHEN icur ILIKE '1155' or icur ILIKE '1156' or icur ILIKE '1154' or icur ILIKE '1153' THEN 'IDENTITY THEFT'  
 WHEN icur ILIKE '1110' or icur ILIKE '1242' or icur ILIKE '1150' or icur ILIKE '1130' or icur ILIKE '1135' THEN 'FRAUD'  
 WHEN clasifiacionfbi ILIKE '%08A%' AND primarydescription ILIKE 'INTIMIDATION' THEN 'INTIMIDATION'  
 WHEN icur ILIKE '0920' or icur ILIKE '0927' or icur ILIKE '0925' THEN 'ATTEMPT'  
 WHEN icur ILIKE '0918' or icur ILIKE '0917' THEN 'CYCLE, SCOOTER, BIKE'  
 WHEN icur ILIKE '0930' or icur ILIKE '0937' or icur ILIKE '0935' THEN 'THEFT/RECOVERY'  
 WHEN secondarydescription ILIKE '%MANUFACTURE / DELIVER%' AND clasifiacionfbi ILIKE '18' THEN 'MANUFACTURE / DELIVERY OF DRUGS'  
 WHEN secondarydescription ILIKE '%POSSES%' AND clasifiacionfbi ILIKE'18' THEN 'POSSESSION OF DRUGS'  
 WHEN ICUR ILIKE '1535' OR icur ILIKE '1540' THEN 'OBSCENE MATTER'  
 WHEN icur ILIKE '1725' or icur ILIKE '1720' THEN 'CONTRIBUTE TO THE DELINQUENCY OF CHILD'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE '%GUN OFFENDER%' THEN 'GUN OFFENDER'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE '%HARASSMENT%' THEN 'HARASSMENT'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE '%SEX OFFENDER%' THEN 'SEX OFFENDER'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE '%VIOLENT OFFENDER%' THEN 'VIOLENT OFFENDER'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE '%AGGRAVATED%' THEN 'AGGRAVATED'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE 'ARMED%' THEN 'ARMED'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE 'ATTEMPT%' THEN 'ATTEMPT ARMED'  
 WHEN icur ILIKE '1590' or icur ILIKE '5004' THEN 'ATTEMPT CRIMINAL SEXUAL ABUSE'  
 WHEN clasifiacionfbi ILIKE '15' and secondarydescription ILIKE 'UNLAWFUL POSSESSION%' THEN 'UNLAWFUL POSSESSION'  
 WHEN clasifiacionfbi ILIKE '15' and secondarydescription ILIKE 'UNLAWFUL USE%' THEN 'UNLAWFUL USE'  
 else secondarydescription  
 END;  
UPDATE cleaning.crimes3  
SET icur=  
 CASE  
 WHEN clasifiacionfbi ILIKE '08A' AND primarydescription ilike 'ASSAULT' THEN '0554'  
 WHEN clasifiacionfbi ILIKE '08B' AND primarydescription ilike 'BATTERY' THEN '0484'  
 WHEN primaryDescription ILIKE '%ARSON%' THEN '1025'  
 WHEN clasifiacionfbi ILIKE '04A' AND primarydescription ilike 'ASSAULT'THEN '051A'  
 WHEN clasifiacionfbi ILIKE '04B'AND primarydescription ilike 'BATTERY' AND secondarydescription ilike 'AGGRAVATED' THEN '0497'  
 WHEN icur ILIKE '0630' or icur ILIKE '0610' or icur ILIKE '0620' then '0630'  
 WHEN icur ILIKE '1480' or icur ILIKE '1478' then '1480'  
 WHEN icur ILIKE '1375' OR icur ILIKE '1345' OR icur ILIKE '1310' or icur ILIKE '1340' or icur ILIKE '1320' then '1375'  
 WHEN icur ILIKE '0261' or icur ILIKE '0263' or icur ILIKE '0265' or icur ILIKE '0264' or icur ILIKE '0262' or icur ILIKE '0271' or icur ILIKE '0273' or icur ILIKE '0275' THEN '0261'  
 WHEN icur ILIKE '0291' or icur ILIKE '0281' THEN '0291'  
 WHEN clasifiacionfbi ILIKE '10' THEN '1122'  
 WHEN icur ILIKE '1155' or icur ILIKE '1156' or icur ILIKE '1154' or icur ILIKE '1153' THEN '1155'  
 WHEN icur ILIKE '1110' or icur ILIKE '1242' or icur ILIKE '1150' or icur ILIKE '1130' or icur ILIKE '1135' THEN '1110'  
 WHEN clasifiacionfbi ILIKE '%08A%' AND primarydescription ILIKE 'INTIMIDATION' THEN '3960'  
 WHEN icur ILIKE '0920' or icur ILIKE '0927' or icur ILIKE '0925' THEN '0920'  
 WHEN icur ILIKE '0918' or icur ILIKE '0917' THEN '0918'  
 WHEN secondarydescription ILIKE '%MANUFACTURE / DELIVER%' AND clasifiacionfbi ILIKE'18' THEN '2014'  
 WHEN secondarydescription ILIKE '%POSSES%' AND clasifiacionfbi ILIKE'18' THEN '2020'  
 WHEN ICUR ILIKE '1535' THEN '1535'  
 WHEN icur ILIKE '1540' THEN '1540'  
 WHEN icur ILIKE '1725' or icur ILIKE '1720' THEN '1725'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE '%GUN OFFENDER%' THEN '5111'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE '%HARASSMENT%' THEN '2826'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE 'SEX OFFENDER%' THEN '4650'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE 'VIOLENT OFFENDER%' THEN '5131'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE 'AGGRAVATED%' AND primarydescription ILIKE 'ROBBERY' THEN '0330'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE 'ARMED%' AND primarydescription ILIKE 'ROBBERY' THEN '031A'  
 WHEN clasifiacionfbi ILIKE '26' and secondarydescription ILIKE 'ATTEMPT%' AND primarydescription ILIKE 'ROBBERY'THEN '033A'  
 WHEN icur ILIKE '1590' or icur ILIKE '5004' THEN '1590'  
 WHEN clasifiacionfbi ILIKE '15' and secondarydescription ILIKE 'UNLAWFUL POSSESSION%' THEN '143C'  
 WHEN clasifiacionfbi ILIKE '15' and secondarydescription ILIKE 'UNLAWFUL USE%' THEN '141A'  
 else icur  
 END;  
  
DROP TABLE IF EXISTS cleaning.icur;  
CREATE TABLE cleaning.icur(  
 icur varchar(4) PRIMARY KEY,  
 primaryDescription varchar(50) NOT NULL,  
 secondaryDescription varchar(100) NOT NULL,  
 clasifiacionFBI varchar(5) NOT NULL  
);  
DROP INDEX IF EXISTS cleaning.icur\_index;  
CREATE INDEX IF NOT EXISTS icur\_index ON cleaning.icur USING BTREE (icur);  
INSERT INTO cleaning.icur  
SELECT DISTINCT icur, primarydescription, secondarydescription, clasifiacionfbi  
FROM cleaning.crimes3;  
  
  
--LIMPIEZA PARA CREAR LA TABLA LOCATION  
UPDATE cleaning.crimes3  
SET beat=813  
WHERE (xcoordinate, ycoordinate, locationdescription)= (1145740,1861084,'STREET');  
UPDATE cleaning.crimes3  
SET beat=132  
WHERE (xcoordinate, ycoordinate)= (1177540, 1890161);  
UPDATE cleaning.crimes3  
SET beat=1021  
WHERE (xcoordinate, ycoordinate)= (1154616,1892209);  
UPDATE cleaning.crimes3  
SET beat=2522  
WHERE (xcoordinate, ycoordinate)= (1146651, 1912925);  
UPDATE cleaning.crimes3  
SET beat=323  
WHERE (xcoordinate, ycoordinate)= (1179854,1858023);  
UPDATE cleaning.crimes3  
SET beat=713  
WHERE (xcoordinate, ycoordinate)= (1166686, 1865425);  
UPDATE cleaning.crimes3  
SET beat=235  
WHERE (xcoordinate, ycoordinate)= (1182571, 1866562);  
UPDATE cleaning.crimes3  
SET beat=511, ward = 9  
WHERE (xcoordinate, ycoordinate)= (1177703, 1841947);  
UPDATE cleaning.crimes3  
SET direccion = '0000X E 110TH PL'  
WHERE (xcoordinate, ycoordinate)= (1178617, 1831874);  
UPDATE cleaning.crimes3  
SET BEAT = 632  
WHERE (xcoordinate, ycoordinate)= (1183474, 1850149);  
UPDATE cleaning.crimes3  
SET BEAT = 1923  
WHERE (xcoordinate, ycoordinate)= (1170200, 1924134);  
UPDATE cleaning.crimes3  
SET ward = 8  
WHERE (xcoordinate, ycoordinate)= (1182971, 1851239);  
UPDATE cleaning.crimes3  
SET ward = 1  
WHERE (xcoordinate, ycoordinate)= (1160114, 1910738);  
UPDATE cleaning.crimes3  
SET beat = 1021  
WHERE (xcoordinate, ycoordinate)= (1153720, 1894499);  
UPDATE cleaning.crimes3  
SET ward = 28  
WHERE (xcoordinate, ycoordinate)= (1173303, 1895451);  
UPDATE cleaning.crimes3  
SET ward = 16  
WHERE (xcoordinate, ycoordinate)= (1170858, 1858243);  
UPDATE cleaning.crimes3  
SET ward = 2  
WHERE (xcoordinate, ycoordinate)= (1170858, 1858243);  
UPDATE cleaning.crimes3  
SET ward = 2  
WHERE (xcoordinate, ycoordinate)= (1178915, 1904276);  
UPDATE cleaning.crimes3  
SET direccion = '009XX W RANDOLPH ST'  
WHERE (xcoordinate, ycoordinate)= (1170233, 1901231);  
UPDATE cleaning.crimes3  
SET beat = 1122  
WHERE (xcoordinate, ycoordinate)= (1149754, 1898946);  
UPDATE cleaning.crimes3  
SET beat = 1011  
WHERE (xcoordinate, ycoordinate)= (1152561, 1894367);  
UPDATE cleaning.crimes3  
SET beat = 624  
WHERE (xcoordinate, ycoordinate)= (1180632, 1855387);  
UPDATE cleaning.crimes3  
SET ward = 34  
WHERE (xcoordinate, ycoordinate)= (1175696, 1895352);  
UPDATE cleaning.crimes3  
SET ward = 34  
WHERE (xcoordinate, ycoordinate)= (1176352, 1900927);  
UPDATE cleaning.crimes3  
SET BEAT = 532  
WHERE (xcoordinate, ycoordinate)= (1179714, 1828756);  
UPDATE cleaning.crimes3  
SET WARD = 6  
WHERE (xcoordinate, ycoordinate)= (1177935, 1843153);  
UPDATE cleaning.crimes3  
SET beat = 713  
WHERE (xcoordinate, ycoordinate)= (1166617, 1867978);  
UPDATE cleaning.crimes3  
SET beat = 2535  
WHERE (xcoordinate, ycoordinate)= (1151973, 1913049);  
UPDATE cleaning.crimes3  
SET ward = 44  
WHERE (xcoordinate, ycoordinate)= (1170273, 1924431);  
UPDATE cleaning.crimes3  
SET ward = 25  
WHERE (xcoordinate, ycoordinate)=(1156761, 1887172);  
UPDATE cleaning.crimes3  
SET ward = 12  
WHERE (xcoordinate, ycoordinate)=(1155395, 1888239);  
UPDATE cleaning.crimes3  
SET ward = 4  
WHERE (xcoordinate, ycoordinate)=(1181568, 1872009);  
UPDATE cleaning.crimes3  
SET ward = 37  
WHERE (xcoordinate, ycoordinate)=(1150569, 1905375);  
UPDATE cleaning.crimes3  
SET ward = 8  
WHERE (xcoordinate, ycoordinate)=(1183009, 1849965);  
UPDATE cleaning.crimes3  
SET beat = 1523  
WHERE (xcoordinate, ycoordinate)=(1141617, 1900253);  
UPDATE cleaning.crimes3  
SET direccion = '023XX S LAKE SHORE DR NB'  
WHERE (xcoordinate, ycoordinate)=(1180536, 1888993);  
UPDATE cleaning.crimes3  
SET ward = 15  
WHERE (xcoordinate, ycoordinate)=(1159302, 1865423) ;  
UPDATE cleaning.crimes3  
SET ward = 46  
WHERE (xcoordinate, ycoordinate)=(1167057, 1932694) ;  
UPDATE cleaning.crimes3  
SET beat = 424  
WHERE (xcoordinate, ycoordinate)=(1197730, 1845034) ;  
UPDATE cleaning.crimes3  
SET ward = 47  
WHERE (xcoordinate, ycoordinate)=(1159771, 1922681) ;  
UPDATE cleaning.crimes3  
SET ward = 28  
WHERE (xcoordinate, ycoordinate)=(1173336, 1893976) ;  
UPDATE cleaning.crimes3  
SET beat = 1833  
WHERE (xcoordinate, ycoordinate)=(1177936, 1905411) ;  
UPDATE cleaning.crimes3  
SET beat = 1124  
WHERE (xcoordinate, ycoordinate)=(1154889, 1899837);  
UPDATE cleaning.crimes3  
SET beat = 1722  
WHERE (xcoordinate, ycoordinate)=(1148778, 1931597);  
UPDATE cleaning.crimes3  
SET ward = 25  
WHERE (xcoordinate, ycoordinate)=(1170936, 1892684);  
UPDATE cleaning.crimes3  
SET ward = 27  
WHERE (xcoordinate, ycoordinate)=(1170815, 1900748);  
UPDATE cleaning.crimes3  
SET ward = 8  
WHERE (xcoordinate, ycoordinate)=(1181947, 1847437);  
UPDATE cleaning.crimes3  
SET ward = 1113  
WHERE (xcoordinate, ycoordinate)=(1147062, 1899564);  
UPDATE cleaning.crimes3  
SET ward = 1421  
WHERE (xcoordinate, ycoordinate)=(1158043, 1910528);  
UPDATE cleaning.crimes3  
SET ward = 34  
WHERE (xcoordinate, ycoordinate)=(1176963, 1894850) ;  
UPDATE cleaning.crimes3  
SET beat = 1233  
WHERE (xcoordinate, ycoordinate)=(1167717, 1894825);  
UPDATE cleaning.crimes3  
SET beat = 111  
WHERE (xcoordinate, ycoordinate)=(1177257, 1901899);  
UPDATE cleaning.crimes3  
SET ward = 19  
WHERE (xcoordinate, ycoordinate)=(1166969, 1841705);  
UPDATE cleaning.crimes3  
SET beat = 923  
WHERE (xcoordinate, ycoordinate)=(1166541, 1870734);  
UPDATE cleaning.crimes3  
SET ward = 4  
WHERE (xcoordinate, ycoordinate)=(1177749, 1884891);  
UPDATE cleaning.crimes3  
SET ward = 6  
WHERE (xcoordinate, ycoordinate)=(1182717, 1860597);  
UPDATE cleaning.crimes3  
SET ward = 34  
WHERE (xcoordinate, ycoordinate)=(1175316, 1898354);  
UPDATE cleaning.crimes3  
SET ward = 34  
WHERE (xcoordinate, ycoordinate)=(1176400, 1899863);  
UPDATE cleaning.crimes3  
SET ward = 21  
WHERE (xcoordinate, ycoordinate)=(1172930, 1832289);  
UPDATE cleaning.crimes3  
SET ward = 4  
WHERE (xcoordinate, ycoordinate)=(1175947, 1898054);  
UPDATE cleaning.crimes3  
SET ward = 4, direccion = '0000X W CONGRESS PKWY'  
WHERE (xcoordinate, ycoordinate)=(1175947, 1898054);  
UPDATE cleaning.crimes3  
SET beat = 915  
WHERE (xcoordinate, ycoordinate)=(1175287, 1884420);  
UPDATE cleaning.crimes3  
SET beat = 1421  
WHERE (xcoordinate, ycoordinate)=(1158043, 1910528);  
UPDATE cleaning.crimes3  
SET ward = 6  
WHERE (xcoordinate, ycoordinate)=(1183068, 1847963);  
UPDATE cleaning.crimes3  
SET ward = 13  
WHERE (xcoordinate, ycoordinate)=(1145654, 1866253) ;  
UPDATE cleaning.crimes3  
SET ward = 15  
WHERE (xcoordinate, ycoordinate)=(1171750, 1874033);  
UPDATE cleaning.crimes3  
SET ward = 35  
WHERE (xcoordinate, ycoordinate)=(1150290, 1916515);  
UPDATE cleaning.crimes3  
SET ward = 17  
WHERE (xcoordinate, ycoordinate)=(1172199, 1857618);  
UPDATE cleaning.crimes3  
SET ward = 17, beat = 733  
WHERE (xcoordinate, ycoordinate)=(1172199, 1857618);  
UPDATE cleaning.crimes3  
SET ward =1125  
WHERE (xcoordinate, ycoordinate)=(1160159, 1899944);  
UPDATE cleaning.crimes3  
SET ward = 27, beat =1125  
WHERE (xcoordinate, ycoordinate)=(1160159, 1899944);  
UPDATE cleaning.crimes3  
SET beat =1113  
WHERE (xcoordinate, ycoordinate)=(1144364, 1900336);  
UPDATE cleaning.crimes3  
SET ward = 10  
WHERE (xcoordinate, ycoordinate)=(1195510, 1836845);  
UPDATE cleaning.crimes3  
SET beat = 114  
WHERE (xcoordinate, ycoordinate)=(1177258, 1901852);  
UPDATE cleaning.crimes3  
SET beat = 2412  
WHERE (xcoordinate, ycoordinate)=(1158696, 1942407);  
UPDATE cleaning.crimes3  
SET beat = 1033, ward = 25  
WHERE (xcoordinate, ycoordinate)=(1155527, 1883726);  
UPDATE cleaning.crimes3  
SET ward = 48  
WHERE (xcoordinate, ycoordinate)=(1167411, 1933405);  
UPDATE cleaning.crimes3  
SET beat = 1022  
WHERE (xcoordinate, ycoordinate)=(1155395, 1894538);  
UPDATE cleaning.crimes3  
SET ward = 16  
WHERE (xcoordinate, ycoordinate)=(1166799, 1861252);  
UPDATE cleaning.crimes3  
SET beat = 311  
WHERE (xcoordinate, ycoordinate)=(1179992, 1863712);  
UPDATE cleaning.crimes3  
SET beat = 331  
WHERE (xcoordinate, ycoordinate)=(1190703, 1860780);  
UPDATE cleaning.crimes3  
SET beat = 1914  
WHERE (xcoordinate, ycoordinate)=(1167774, 1931289);  
UPDATE cleaning.crimes3  
SET ward = 42  
WHERE (xcoordinate, ycoordinate)=(1176038, 1905723);  
UPDATE cleaning.crimes3  
SET beat = 1221  
WHERE (xcoordinate, ycoordinate)=(1163960, 1905374);  
UPDATE cleaning.crimes3  
SET ward = 31, beat = 1523  
WHERE (xcoordinate, ycoordinate)=(1139022, 1900588);  
UPDATE cleaning.crimes3  
SET ward = 31, beat = 1523  
WHERE (xcoordinate, ycoordinate)=(1139022, 1900588);  
UPDATE cleaning.crimes3  
SET ward = 31, beat = 1523  
WHERE (xcoordinate, ycoordinate)=(1139022, 1900588);  
UPDATE cleaning.crimes3  
SET ward = 34  
WHERE (xcoordinate, ycoordinate)=(1174331, 1900398);  
UPDATE cleaning.crimes3  
SET ward = 17  
WHERE (xcoordinate, ycoordinate)=(1168764, 1850052);  
UPDATE cleaning.crimes3  
SET beat = 723  
WHERE (xcoordinate, ycoordinate)=(1171308, 1863061);  
UPDATE cleaning.crimes3  
SET ward = 21, beat = 2222  
WHERE (xcoordinate, ycoordinate)=(1170729, 1847123);  
UPDATE cleaning.crimes3  
SET beat = 1731  
WHERE (xcoordinate, ycoordinate)=(1143721, 1923926);  
UPDATE cleaning.crimes3  
SET beat = 2522  
WHERE (xcoordinate, ycoordinate)=(1141845, 1912826);  
UPDATE cleaning.crimes3  
SET ward = 42  
WHERE (xcoordinate, ycoordinate)=(1176405, 1899625);  
UPDATE cleaning.crimes3  
SET beat = 1831  
WHERE (xcoordinate, ycoordinate)=(1176000, 1904188);  
UPDATE cleaning.crimes3  
SET beat = 1731  
WHERE (xcoordinate, ycoordinate)=(1193556, 1853551);  
UPDATE cleaning.crimes3  
SET ward = 21, beat = 613  
WHERE (xcoordinate, ycoordinate)=(1172423, 1849658);  
UPDATE cleaning.crimes3  
SET beat = 1821  
WHERE (xcoordinate, ycoordinate)=(1175314, 1908524);  
UPDATE cleaning.crimes3  
SET beat = 931  
WHERE (xcoordinate, ycoordinate)=(1166467, 1873388);  
UPDATE cleaning.crimes3  
SET beat = 213  
WHERE (xcoordinate, ycoordinate)=(1178941, 1876568);  
UPDATE cleaning.crimes3  
SET beat = 922  
WHERE (xcoordinate, ycoordinate)=(1161186, 1872062);  
UPDATE cleaning.crimes3  
SET ward = 28  
WHERE (xcoordinate, ycoordinate)=(1151008, 1901614);  
UPDATE cleaning.crimes3  
SET beat = 1511  
WHERE (xcoordinate, ycoordinate)=(1137347, 1907404);  
UPDATE cleaning.crimes3  
SET ward = 10  
WHERE (xcoordinate, ycoordinate)=(1194553, 1834880);  
UPDATE cleaning.crimes3  
SET beat = 1712  
WHERE (xcoordinate, ycoordinate)=(1150106, 1931625);  
UPDATE cleaning.crimes3  
SET beat = 1423  
WHERE (xcoordinate, ycoordinate)=(1154735, 1910259);  
UPDATE cleaning.crimes3  
SET ward = 28  
WHERE (xcoordinate, ycoordinate)=(1168413, 1894846);  
UPDATE cleaning.crimes3  
SET beat = 1112  
WHERE (xcoordinate, ycoordinate)=(1150061, 1904387);  
UPDATE cleaning.crimes3  
SET beat = 212  
WHERE (xcoordinate, ycoordinate)=(1179988, 1881891);  
UPDATE cleaning.crimes3  
SET ward = 36  
WHERE (xcoordinate, ycoordinate)=(1159224, 1906566);  
UPDATE cleaning.crimes3  
SET beat = 112  
WHERE (xcoordinate, ycoordinate)=(1176634, 1899472);  
UPDATE cleaning.crimes3  
SET ward = 17  
WHERE (xcoordinate, ycoordinate)=(1155810, 1862669);  
UPDATE cleaning.crimes3  
SET ward = 16  
WHERE (xcoordinate, ycoordinate)=(1171188, 1858219);  
UPDATE cleaning.crimes3  
SET direccion = '002XX N MICHIGAN AVE'  
WHERE (xcoordinate, ycoordinate)=(1177258, 1901852);  
UPDATE cleaning.crimes3  
SET ward = 7  
WHERE (xcoordinate, ycoordinate)=(1194566, 1834239);  
UPDATE cleaning.crimes3  
SET beat = 1931  
WHERE (xcoordinate, ycoordinate)=(1165266, 1916100);  
UPDATE cleaning.crimes3  
SET beat = 1034  
WHERE (xcoordinate, ycoordinate)=(1161087, 1889344);  
UPDATE cleaning.crimes3  
SET ward = 6 , beat = 622  
WHERE (xcoordinate, ycoordinate)=(1172388, 1850831);  
UPDATE cleaning.crimes3  
SET ward = 27  
WHERE (xcoordinate, ycoordinate)=(1173757, 1906353);  
UPDATE cleaning.crimes3  
SET ward = 21  
WHERE (xcoordinate, ycoordinate)=(1177810, 1847135);  
UPDATE cleaning.crimes3  
SET ward = 21  
WHERE (xcoordinate, ycoordinate)=(1173478, 1824983);  
UPDATE cleaning.crimes3  
SET ward = 20  
WHERE (xcoordinate, ycoordinate)=(1179710, 1871806);  
UPDATE cleaning.crimes3  
SET ward = 36  
WHERE (xcoordinate, ycoordinate)=(1157530, 1907056);  
UPDATE cleaning.crimes3  
SET ward = 38, beat = 1632  
WHERE (xcoordinate, ycoordinate)=(1131110, 1920530);  
UPDATE cleaning.crimes3  
SET beat = 1021  
WHERE (xcoordinate, ycoordinate)=(1154560, 1894195);  
UPDATE cleaning.crimes3  
SET ward = 8  
WHERE (xcoordinate, ycoordinate)=(1192241, 1852855);  
UPDATE cleaning.crimes3  
SET ward = 28, beat = 1023  
WHERE (xcoordinate, ycoordinate)=(1157932, 1892551);  
UPDATE cleaning.crimes3  
SET beat = 2433  
WHERE (xcoordinate, ycoordinate)=(1167566, 1939682);  
UPDATE cleaning.crimes3  
SET beat = 2024  
WHERE (xcoordinate, ycoordinate)=(1168554, 1932051);  
UPDATE cleaning.crimes3  
SET beat = 1115  
WHERE (xcoordinate, ycoordinate)=(1149756, 1898890);  
UPDATE cleaning.crimes3  
SET beat = 2424  
WHERE (xcoordinate, ycoordinate)=(1163566, 1945922);  
UPDATE cleaning.crimes3  
SET beat = 111  
WHERE (xcoordinate, ycoordinate)=(1177246, 1902350);  
UPDATE cleaning.crimes3  
SET beat = 113  
WHERE (xcoordinate, ycoordinate)=(1176689, 1899474);  
UPDATE cleaning.crimes3  
SET beat = 815  
WHERE (xcoordinate, ycoordinate)=(1145161, 1872678);  
UPDATE cleaning.crimes3  
SET ward = 17, beat = 614  
WHERE (xcoordinate, ycoordinate)=(1168413, 1850809);  
UPDATE cleaning.crimes3  
SET ward = 7, beat = 324  
WHERE (xcoordinate, ycoordinate)=(1189944, 1857944);  
UPDATE cleaning.crimes3  
SET beat = 2423  
WHERE (xcoordinate, ycoordinate)=(1163243, 1947985);  
UPDATE cleaning.crimes3  
SET ward = 34  
WHERE (xcoordinate, ycoordinate)=(1173115, 1826528);  
UPDATE cleaning.crimes3  
SET ward = 37, beat = 1524  
WHERE (xcoordinate, ycoordinate)=(1138890, 1904424);  
UPDATE cleaning.crimes3  
SET beat = 532  
WHERE (xcoordinate, ycoordinate)=(1178373, 1826647);  
UPDATE cleaning.crimes3  
SET beat = 2423  
WHERE (xcoordinate, ycoordinate)=(1163408, 1946794);  
UPDATE cleaning.crimes3  
SET ward = 34  
WHERE (xcoordinate, ycoordinate)=(1176790, 1901377);  
UPDATE cleaning.crimes3  
SET ward = 20  
WHERE (xcoordinate, ycoordinate)=(1174724, 1875288);  
UPDATE cleaning.crimes3  
SET ward = 21  
WHERE (xcoordinate, ycoordinate)=(1172764, 1828586);  
UPDATE cleaning.crimes3  
SET beat = 1433  
WHERE (xcoordinate, ycoordinate)=(1165109, 1908650);  
UPDATE cleaning.crimes3  
SET ward = 36  
WHERE (xcoordinate, ycoordinate)=(1135916, 1915323);  
UPDATE cleaning.crimes3  
SET ward = 37, beat = 1524  
WHERE (xcoordinate, ycoordinate)=(1138891, 1904389);  
UPDATE cleaning.crimes3  
SET ward = 22  
WHERE (xcoordinate, ycoordinate)=(1154478, 1889179);  
UPDATE cleaning.crimes3  
SET beat = 622  
WHERE (xcoordinate, ycoordinate)=(1176368, 1847206);  
UPDATE cleaning.crimes3  
SET beat = 1723  
WHERE (xcoordinate, ycoordinate)=(1152753, 1931684);  
UPDATE cleaning.crimes3  
SET ward = 17  
WHERE (xcoordinate, ycoordinate)=(1175681, 1851681);  
UPDATE cleaning.crimes3  
SET beat = 735  
WHERE (xcoordinate, ycoordinate)=(1166876, 1858796);  
UPDATE cleaning.crimes3  
SET ward = 37  
WHERE (xcoordinate, ycoordinate)=(1143956, 1903552);  
UPDATE cleaning.crimes3  
SET ward = 32  
WHERE (xcoordinate, ycoordinate)=(1160867, 1917657);  
UPDATE cleaning.crimes3  
SET BEAT = 1134  
WHERE (xcoordinate, ycoordinate)=(1155131, 1894531);  
UPDATE cleaning.crimes3  
SET ward = 29  
WHERE (xcoordinate, ycoordinate)=(1138892, 1904360);  
UPDATE cleaning.crimes3  
SET beat = 922  
WHERE (xcoordinate, ycoordinate)=(1155835, 1873178);  
UPDATE cleaning.crimes3  
SET ward = 35, beat = 2525  
WHERE (xcoordinate, ycoordinate)=(1149252, 1915654);  
UPDATE cleaning.crimes3  
SET beat = 612  
WHERE (xcoordinate, ycoordinate)=(1171041, 1851551);  
UPDATE cleaning.crimes3  
SET beat = 1233  
WHERE (xcoordinate, ycoordinate)=(1168644, 1891779);  
UPDATE cleaning.crimes3  
SET ward = 15  
WHERE (xcoordinate, ycoordinate)=(1156477, 1862446);  
UPDATE cleaning.crimes3  
SET ward = 42  
WHERE (xcoordinate, ycoordinate)=(1171763, 1900767);  
UPDATE cleaning.crimes3  
SET beat = 132  
WHERE (xcoordinate, ycoordinate)=(1177528, 1890620);  
UPDATE cleaning.crimes3  
SET ward = 36, beat = 2512  
WHERE (xcoordinate, ycoordinate)=(1134109, 1917944);  
UPDATE cleaning.crimes3  
SET ward = 18  
WHERE (xcoordinate, ycoordinate)=(1164404, 1852184);  
UPDATE cleaning.crimes3  
SET beat = 1925  
WHERE (xcoordinate, ycoordinate)=(1170273, 1924431);  
UPDATE cleaning.crimes3  
SET beat = 1413  
WHERE (xcoordinate, ycoordinate)=(1154615, 1916523);  
UPDATE cleaning.crimes3  
SET beat = 1424  
WHERE (xcoordinate, ycoordinate)=(1163696, 1908020);  
UPDATE cleaning.crimes3  
SET beat = 2412  
WHERE (xcoordinate, ycoordinate)=(1156420, 1942336);  
UPDATE cleaning.crimes3  
SET beat = 1232  
WHERE (xcoordinate, ycoordinate)=(1168424, 1899132);  
UPDATE cleaning.crimes3  
SET ward = 16  
WHERE (xcoordinate, ycoordinate)=(1166358, 1865343);  
UPDATE cleaning.crimes3  
SET beat = 215  
WHERE (xcoordinate, ycoordinate)=(1179581, 1876320);  
UPDATE cleaning.crimes3  
SET beat = 2511  
WHERE (xcoordinate, ycoordinate)=(1135663, 1920649);  
UPDATE cleaning.crimes3  
SET beat = 2413  
WHERE (xcoordinate, ycoordinate)=(1163069, 1941495);  
UPDATE cleaning.crimes3  
SET ward = 36  
WHERE (xcoordinate, ycoordinate)=(1147025, 1910941);  
UPDATE cleaning.crimes3  
SET ward = 12  
WHERE (xcoordinate, ycoordinate)=(1155361, 1886557);  
UPDATE cleaning.crimes3  
SET ward = 20  
WHERE (xcoordinate, ycoordinate)=(1175476, 1873816);  
UPDATE cleaning.crimes3  
SET beat = 2424  
WHERE (xcoordinate, ycoordinate)=(1160660, 1948887);  
UPDATE cleaning.crimes3  
SET beat = 1924  
WHERE (xcoordinate, ycoordinate)=(1170360, 1921560);  
UPDATE cleaning.crimes3  
SET beat = 1112  
WHERE (xcoordinate, ycoordinate)=(1151394, 1907743);  
  
DROP TABLE IF EXISTS cleaning.location;  
CREATE TABLE cleaning.location(  
 id bigserial PRIMARY KEY,  
 direccion varchar(100) NOT NULL,  
 beat smallint NOT NULL,  
 ward smallint NOT NULL,  
 xcoordinate integer,  
 ycoordinate integer,  
 latitude numeric,  
 longitude numeric  
  
);  
DROP INDEX IF EXISTS cleaning.location\_index;  
CREATE INDEX IF NOT EXISTS location\_index ON cleaning.location USING BTREE (id);  
INSERT INTO cleaning.location (direccion, beat, ward, xcoordinate, ycoordinate, latitude, longitude)  
SELECT DISTINCT direccion, beat, ward, xcoordinate, ycoordinate, latitude, longitude  
FROM cleaning.crimes3;  
  
DROP TABLE IF EXISTS cleaning.type\_location;  
CREATE TABLE cleaning.type\_location(  
 id smallserial PRIMARY KEY ,  
 location\_description varchar(100)  
);  
DROP INDEX IF EXISTS cleaning.type\_location\_index;  
CREATE INDEX type\_location\_index ON cleaning.type\_location USING BTREE (id);  
INSERT INTO cleaning.type\_location(location\_description)  
SELECT DISTINCT locationdescription  
FROM cleaning.crimes3;  
  
DROP TABLE IF EXISTS cleaning.crimesLimpia;  
CREATE TABLE cleaning.crimesLimpia(  
 id bigserial PRIMARY KEY,  
 caseNumber varchar(10),  
 fecha timestamp,  
 icur varchar(4) REFERENCES cleaning.icur(icur),  
 arrest varchar(1) NOT NULL,  
 domestic varchar(1) NOT NULL,  
 id\_location bigint REFERENCES cleaning.location ON DELETE CASCADE ON UPDATE CASCADE,  
 id\_type\_location smallint REFERENCES cleaning.type\_location ON DELETE CASCADE ON UPDATE CASCADE  
);  
DROP INDEX IF EXISTS cleaning.limpia\_index;  
CREATE INDEX IF NOT EXISTS limpia\_index ON cleaning.crimesLimpia USING BTREE (id);  
WITH crimes\_con\_idExt AS(  
 SELECT cleaning.crimes3.\*, L.id AS idLoc, TP.id AS idTypeLoc  
 FROM cleaning.crimes3  
 INNER JOIN cleaning.location AS L ON cleaning.crimes3.beat = L.beat  
 AND cleaning.crimes3.ward = L.ward  
 AND cleaning.crimes3.xcoordinate = L.xcoordinate  
 AND cleaning.crimes3.ycoordinate = L.ycoordinate  
 AND cleaning.crimes3.direccion = L.direccion  
 INNER JOIN cleaning.type\_location AS TP ON cleaning.crimes3.locationdescription = TP.location\_description  
)  
INSERT INTO cleaning.crimesLimpia(caseNumber, fecha, icur, arrest, domestic, id\_location, id\_type\_location)  
SELECT DISTINCT id, *cast*(fecha as timestamp), icur, arrest, domestic, idLoc, idTypeLoc  
FROM crimes\_con\_idExt;  
DROP TABLE IF EXISTS cleaning.crimes3;

Querys

DROP VIEW IF EXISTS horConCrimen CASCADE;  
CREATE OR REPLACE VIEW horaConCrimen AS  
SELECT *CAST*(cleaning.crimeslimpia.fecha AS time) as hora,  
 cleaning.location.direccion as direccion, cleaning.icur.primarydescription as primarydescription,  
 cleaning.icur.secondarydescription, cleaning.crimeslimpia.domestic,  
 cleaning.location.ward as ward  
FROM cleaning.crimeslimpia  
INNER JOIN cleaning.location on cleaning.crimeslimpia.id\_location = cleaning.location.id  
INNER JOIN cleaning.icur ON cleaning.icur.icur = cleaning.crimeslimpia.icur;  
  
SELECT \*  
FROM horaConCrimen;  
  
--HACER CON FUNCOINES DE VENATNA UNA TABLA QUE LE AGREGRA SEGUN EL WARD A POSICION EN INSEGUIDAD  
  
--DISTRITO MAS PELIGROSO  
DROP VIEW IF EXISTS ranking\_inseguridad\_distrios;  
CREATE or replace view ranking\_inseguridad\_distrios AS  
SELECT ward, *COUNT*(\*) numero\_crimenes, *ROW\_NUMBER*() OVER (ORDER BY *COUNT*(\*) DESC) AS ranking\_distiro\_mas\_inseguro  
FROM horaConCrimen  
GROUP BY ward  
ORDER BY *count*(\*) desc;  
  
SELECT \*  
FROM ranking\_inseguridad\_distrios;  
  
DROP VIEW IF EXISTS horaLugarDomPrimDes CASCADE;  
CREATE OR REPLACE VIEW horaLugarDomPrimDes AS  
SELECT *EXTRACT*(HOUR from hora) as hora, ward, domestic, primarydescription  
FROM horaConCrimen;  
  
SELECT \*  
FROM horaLugarDomPrimDes;  
  
--ranking horas mas peligrosa por ward  
DROP VIEW IF EXISTS ranking\_hora\_mas\_peligrosa\_por\_ward CASCADE;  
CREATE OR REPLACE VIEW ranking\_hora\_mas\_peligrosa\_por\_ward AS  
SELECT ward, hora, *count*(\*) as numero\_crimenes, *ROW\_NUMBER*() OVER (PARTITION BY ward ORDER BY *count*(\*) DESC) AS ranking\_hora  
FROM horaLugarDomPrimDes  
GROUP BY ward, hora;  
--HORA MÁS PIGROSA POR WARD  
SELECT ward, hora, numero\_crimenes  
FROM ranking\_hora\_mas\_peligrosa\_por\_ward  
WHERE ranking\_hora = 1;  
  
--ranking horas mas comunes por crimen  
DROP VIEW IF EXISTS ranking\_hora\_mas\_peligrosa\_por\_crimen CASCADE;  
CREATE OR REPLACE VIEW ranking\_hora\_mas\_peligrosa\_por\_crimen AS  
SELECT primarydescription, hora, *count*(\*) as numero\_crimenes, *ROW\_NUMBER*() OVER (PARTITION BY primarydescription ORDER BY *count*(\*) DESC) AS ranking\_hora  
FROM horaLugarDomPrimDes  
GROUP BY primarydescription, hora;  
  
SELECT \*  
FROM ranking\_hora\_mas\_peligrosa\_por\_crimen  
WHERE ranking\_hora=1  
ORDER BY primarydescription;  
  
--hora mas común si es o no domestico ranking\_hora\_mas\_peligrosa\_domesticidad  
DROP VIEW IF EXISTS ranking\_hora\_mas\_peligrosa\_domesticidad ;  
CREATE OR REPLACE VIEW ranking\_hora\_mas\_peligrosa\_domesticidad AS  
SELECT domestic, hora, *count*(\*) as numero\_crimenes, *ROW\_NUMBER*() OVER (PARTITION BY domestic ORDER BY *count*(\*) DESC) AS ranking\_hora  
FROM horaLugarDomPrimDes  
GROUP BY domestic, hora;  
  
--TOP 5 HORAS EN LAS QUE MAS SE COMETEN CRIMENES domesticos y no domesticos  
SELECT domestic, HORA, NUMERO\_CRIMENES  
FROM ranking\_hora\_mas\_peligrosa\_domesticidad  
WHERE ranking\_hora <=5;