

Chicago Crimes Table

1. Table Overview

The "Chicago Crimes" table is a comprehensive repository of criminal incidents reported in Chicago. It includes a variety of data elements that detail each incident, including the type of crime, location, timing, and unique identifiers, along with geographical information.

2. Table Schema

Column Name	Type	Description
ID	Integer	Unique identifier for each crime incident.
Case Number	String	Alphanumeric case number assigned to the incident.
Date	DateTime	Date and time when the crime was reported.
Block	String	The block address of the crime location.
IUCR	String	Illinois Uniform Crime Reporting code for the crime type.
Primary Type	String	Primary classification of the crime.
Description	String	Detailed information about the crime.

Location Description	String	The location type where the crime occurred.
Arrest	Boolean	Indicates if an arrest was made.
Domestic	Boolean	Indicates if the incident was domestic-related.
Beat, District, Ward, Community Area, FBI Code	Integer/String	Jurisdictional and classification codes.
X Coordinate, Y Coordinate	Integer	Geographical coordinates of the incident.
Year	Integer	The year of the crime report.
Updated On	DateTime	Last update time of the record.
Latitude, Longitude	Float	Geographical latitude and longitude of the incident.
Location	String	String format of the geographical coordinates.

3. Sample Data

The table rows represent individual crime incidents, each detailed as per the schema.

unique_key,case_number,date,block,iucr,primary_type,description,location_description,
arrest,domestic,beat,district,ward,community_area,fbi_code,x_coordinate,y_coordinate,y
ear,updated_on,latitude,longitude,location

23724,JA543618,12/10/2017 5:15:00,106XX S PERRY AVE,0110,HOMICIDE,FIRST DEGREE
MURDER,STREET,TRUE,FALSE,512,5,34,49,01A,1177481,1834530,2017,9/1/2022
3:42:17,41.7012748,-87.62573774,"(41.701274797, -87.625737736)"

27512,JG271163,5/22/2023 11:07:00,003XX W 104TH PL,0110,HOMICIDE,FIRST DEGREE
MURDER,ALLEY,FALSE,FALSE,512,5,21,49,01A,1176009,1835633,2023,5/29/2023
3:41:43,41.70433465,-87.63109475,"(41.70433465, -87.631094752)"

1933,HH849690,12/20/2002 6:00:00,007XX E 104TH ST,0110,HOMICIDE,FIRST DEGREE
MURDER,ALLEY,FALSE,FALSE,512,5,9,50,01A,1182896,1836154,2002,9/19/2022
3:41:05,41.70560747,-87.60585975,"(41.705607465, -87.60585975)"

3956485,HL323313,9/2/2003 12:01:00,104XX S WENTWORTH AVE,0266,CRIM SEXUAL
ASSAULT,PREDATORY,RESIDENCE,TRUE,FALSE,512,5,34,49,02,1176793,1835866,2003,2
/28/2018 3:56:25,41.70495646,-87.6282169,"(41.704956456, -87.628216897)"

6074957,HP169267,2/10/2008 5:30:00,009XX E 104TH ST,0266,CRIM SEXUAL
ASSAULT,PREDATORY,APARTMENT,FALSE,TRUE,512,5,9,50,02,1184238,1836191,2008,2/
28/2018 3:56:25,41.70567778,-87.60094436,"(41.705677782, -87.600944364)"

5051155,HM657635,10/13/2006 1:25:00,105XX S WABASH AVE,031A,ROBBERY,ARMED:
HANDGUN,OTHER,TRUE,FALSE,512,5,9,49,03,1178437,1835173,2006,2/28/2018
3:56:25,41.70301767,-87.62221776,"(41.703017671, -87.622217763)"

13219756,JG435206,9/22/2023 8:30:00,002XX W 104TH ST,031A,ROBBERY,ARMED -
HANDGUN,RESIDENCE,TRUE,FALSE,512,5,21,49,03,1176537,1835978,2023,12/10/2023
3:40:28,41.70526955,-87.62915098,"(41.705269548, -87.629150979)"

7550610,HS338285,6/1/2010 11:30:00,105XX S EDBROOKE AVE,031A,ROBBERY,ARMED:
HANDGUN,ALLEY,FALSE,FALSE,512,5,9,49,03,1179132,1834992,2010,2/10/2018
3:50:01,41.70250521,-87.61967835,"(41.702505206, -87.619678345)"

4. Sample Queries

- x To find all 'Robbery' incidents in 2023:

```
SELECT * FROM `Chicago Crimes` WHERE `Primary Type` = 'ROBBERY' AND Year =  
2023;
```

- x To count homicides per year:

```
SELECT Year, COUNT(*) as Homicide_Count FROM `Chicago Crimes` WHERE `Primary  
Type` = 'HOMICIDE' GROUP BY Year;
```

- x To find cases with arrests in a specific district:

```
SELECT * FROM `Chicago Crimes` WHERE Arrest = TRUE AND District = [specific  
district number];
```

- x To list incidents on a specific block with the last update date:

```
SELECT Block, `Updated On`, `Primary Type`, Description FROM `Chicago Crimes`  
WHERE Block = '[specific block]';
```

- x To identify crime hotspots by location:

```
SELECT `Location Description`, COUNT(*) as Incident_Count FROM `Chicago Crimes`  
GROUP BY `Location Description` ORDER BY Incident_Count DESC;
```

5. Potential Uses and Limitations

x Uses:

- Strategic crime prevention planning.
- Research on crime patterns and trends.
- Law enforcement resource allocation.

x Limitations:

- Possible incomplete data or reporting biases.
- Variable accuracy of geolocation data.
- Unreported crimes are not accounted for.