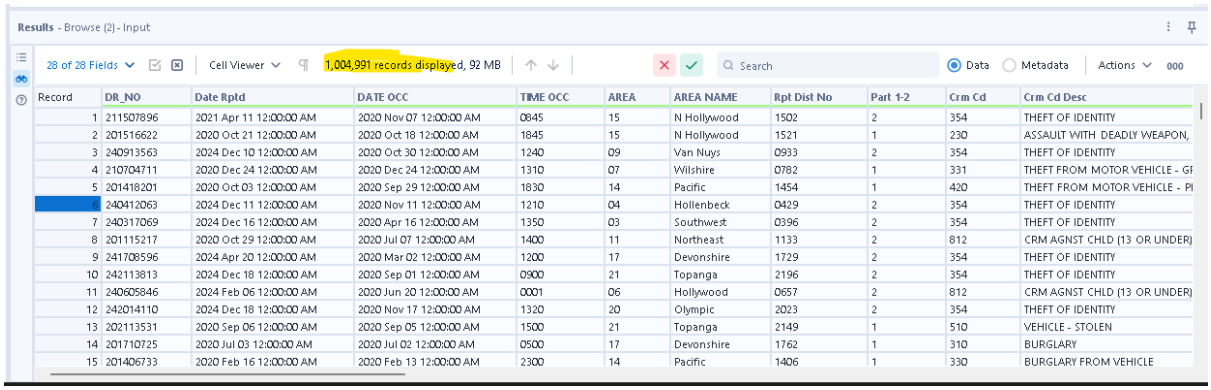
LAPD Dataset Documentation

Github link: https://github.com/prathushp/End-to-End-LA-Crime-Analytics_Group4

LAPD dataset Profiling:

Overall Information

Basic Information:



Record	DR_NO	Date Rptd	DATE OCC	TIME OCC	AREA	AREA NAME	Rpt Dist No	Part 1-2	Crm Cd	Crm Cd Desc
1	211507896	2021 Apr 11 12:00:00 AM	2020 Nov 07 12:00:00 AM	0845	15	N Hollywood	1502	2	354	THEFT OF IDENTITY
2	201516622	2020 Oct 21 12:00:00 AM	2020 Oct 18 12:00:00 AM	1845	15	N Hollywood	1521	1	230	ASSAULT WITH DEADLY WEAPON,
3	240913563	2024 Dec 10 12:00:00 AM	2020 Oct 30 12:00:00 AM	1240	09	Van Nuys	0933	2	354	THEFT OF IDENTITY
4	210704711	2020 Dec 24 12:00:00 AM	2020 Dec 24 12:00:00 AM	1310	07	Wilshire	0782	1	331	THEFT FROM MOTOR VEHICLE - GF
5	201418201	2020 Oct 03 12:00:00 AM	2020 Sep 29 12:00:00 AM	1830	14	Pacific	1454	1	420	THEFT FROM MOTOR VEHICLE - PI
6	240412063	2024 Dec 11 12:00:00 AM	2020 Nov 11 12:00:00 AM	1210	04	Hollenbeck	0429	2	354	THEFT OF IDENTITY
7	240317069	2024 Dec 16 12:00:00 AM	2020 Apr 16 12:00:00 AM	1350	03	Southwest	0396	2	354	THEFT OF IDENTITY
8	201115217	2020 Oct 29 12:00:00 AM	2020 Jul 07 12:00:00 AM	1400	11	Northeast	1133	2	812	CRM AGNST CHLD (13 OR UNDER)
9	241708596	2024 Apr 20 12:00:00 AM	2020 Mar 02 12:00:00 AM	1200	17	Devonshire	1729	2	354	THEFT OF IDENTITY
10	242113813	2024 Dec 18 12:00:00 AM	2020 Sep 01 12:00:00 AM	0900	21	Topanga	2196	2	354	THEFT OF IDENTITY
11	240605846	2024 Feb 06 12:00:00 AM	2020 Jun 20 12:00:00 AM	0001	06	Hollywood	0657	2	812	CRM AGNST CHLD (13 OR UNDER)
12	242014110	2024 Dec 18 12:00:00 AM	2020 Nov 17 12:00:00 AM	1320	20	Olympic	2023	2	354	THEFT OF IDENTITY
13	202113531	2020 Sep 06 12:00:00 AM	2020 Sep 05 12:00:00 AM	1500	21	Topanga	2149	1	510	VEHICLE - STOLEN
14	201710725	2020 Jul 03 12:00:00 AM	2020 Jul 02 12:00:00 AM	0500	17	Devonshire	1762	1	310	BURGLARY
15	201406733	2020 Feb 16 12:00:00 AM	2020 Feb 13 12:00:00 AM	2300	14	Pacific	1406	1	330	BURGLARY FROM VEHICLE

Total Number of Records: 1004991

Number of Columns :28

Duplicate records:0

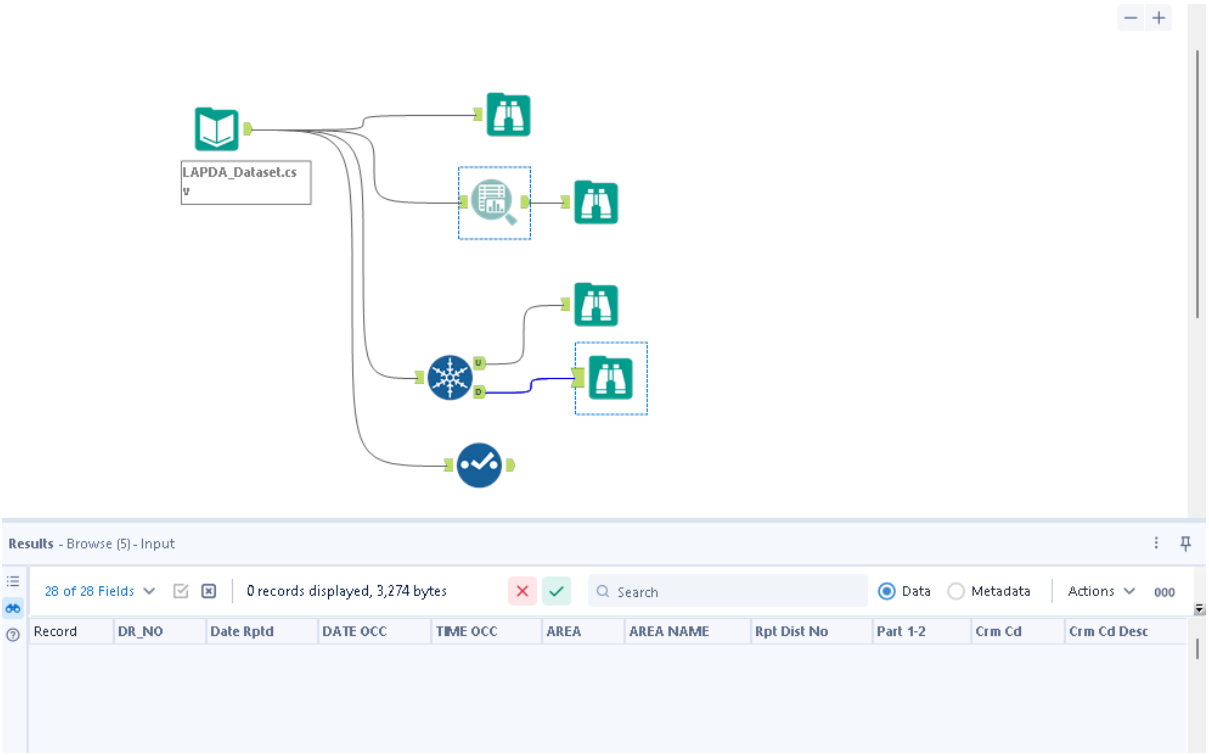
Source to Target DataType

Column_Name	Source Data Type	Target Data type
DR_NO	V_String	V_String
Date Rptd	V_String	Date
DATE OCC	V_String	Date
TIME OCC	V_String	Time
AREA	V_String	Number
AREA NAME	V_String	V_String
Rpt Dist No	V_String	Number
Part 1-2	V_String	Number
Crm Cd	V_String	Number
Crm Cd Desc	V_String	V_String
Mocodes	V_String	To be dropped
Vict Age	V_String	Number
Vict Sex	V_String	V_String
Vict Descent	V_String	V_String
Premis Cd	V_String	Number
Premis Desc	V_String	V_String
Weapon Used Cd	V_String	Number
Weapon Desc	V_String	V_String
Status	V_String	V_String
Status Desc	V_String	V_String
Crm Cd 1	V_String	Number

Crm Cd 2	V_String	Number
Crm Cd 3	V_String	Number
Crm Cd 4	V_String	Number
LOCATION	V_String	V_String
Cross Street	V_String	V_String
LAT	V_String	Double
LON	V_String	Double

Data Qualtiy Assessment

1. Duplicates



Detail : There are no duplicate record while selecting all the columns from the dataset.

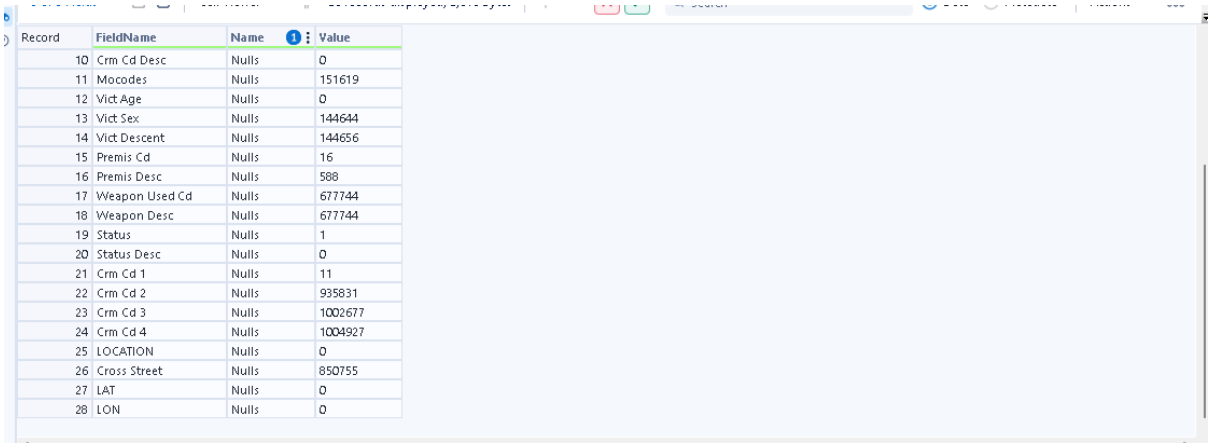
2. Missing/Null Values

Verified using basic data profiling tool
Affected Columns: Mocodes ,Vict Sex, Vict Descent ,Premis Cd,Premis Desc, Weapon Used Cd, Weapon Desc ,Status,Crm Cd 1 Crm Cd 2, Crm Cd 3, Crm Cd 4, Cross Street

Results - Browse (7) - Input

3 of 3 Fields | Cell Viewer | 28 records displayed, 2,610 bytes | Search

Record	FieldName	Name	Value
1	DR_NO	Nulls	0
2	Date Rptd	Nulls	0
3	DATE OCC	Nulls	0
4	TIME OCC	Nulls	0
5	AREA	Nulls	0
6	AREA NAME	Nulls	0
7	Rpt Dist No	Nulls	0
8	Part 1-2	Nulls	0
9	Crm Cd	Nulls	0
10	Crm Cd Desc	Nulls	0
11	Mocodes	Nulls	151619
12	Vict Age	Nulls	0
13	Vict Sex	Nulls	144644
14	Vict Descent	Nulls	144656
15	Premis Cd	Nulls	16
16	Premis Desc	Nulls	588
17	Weapon Used Cd	Nulls	677744
18	Weapon Desc	Nulls	677744
19	Status	Nulls	1
20	Status Desc	Nulls	0



Record	FieldName	Name	Value
10	Crm Cd Desc	Nulls	0
11	Mocodes	Nulls	151619
12	Vict Age	Nulls	0
13	Vict Sex	Nulls	144644
14	Vict Descent	Nulls	144656
15	Premis Cd	Nulls	16
16	Premis Desc	Nulls	588
17	Weapon Used Cd	Nulls	677744
18	Weapon Desc	Nulls	677744
19	Status	Nulls	1
20	Status Desc	Nulls	0
21	Crm Cd 1	Nulls	11
22	Crm Cd 2	Nulls	935831
23	Crm Cd 3	Nulls	1002677
24	Crm Cd 4	Nulls	1004927
25	LOCATION	Nulls	0
26	Cross Street	Nulls	850755
27	LAT	Nulls	0
28	LON	Nulls	0

Recommend Action

Column Names	Replace Null with	Reason
Mocodes	Unkown	To maintain String formmat
Vict Sex	X (As per site X is for unknown)	To maintain String formmat
Vict Descent	X(As per site X is for unknown)	To maintain String formmat
Premis Cd	-1	To maintain number format
Premis Desc	Unknown	To maintain String formmat
Weapon Used Cd	-1	To maintain number format

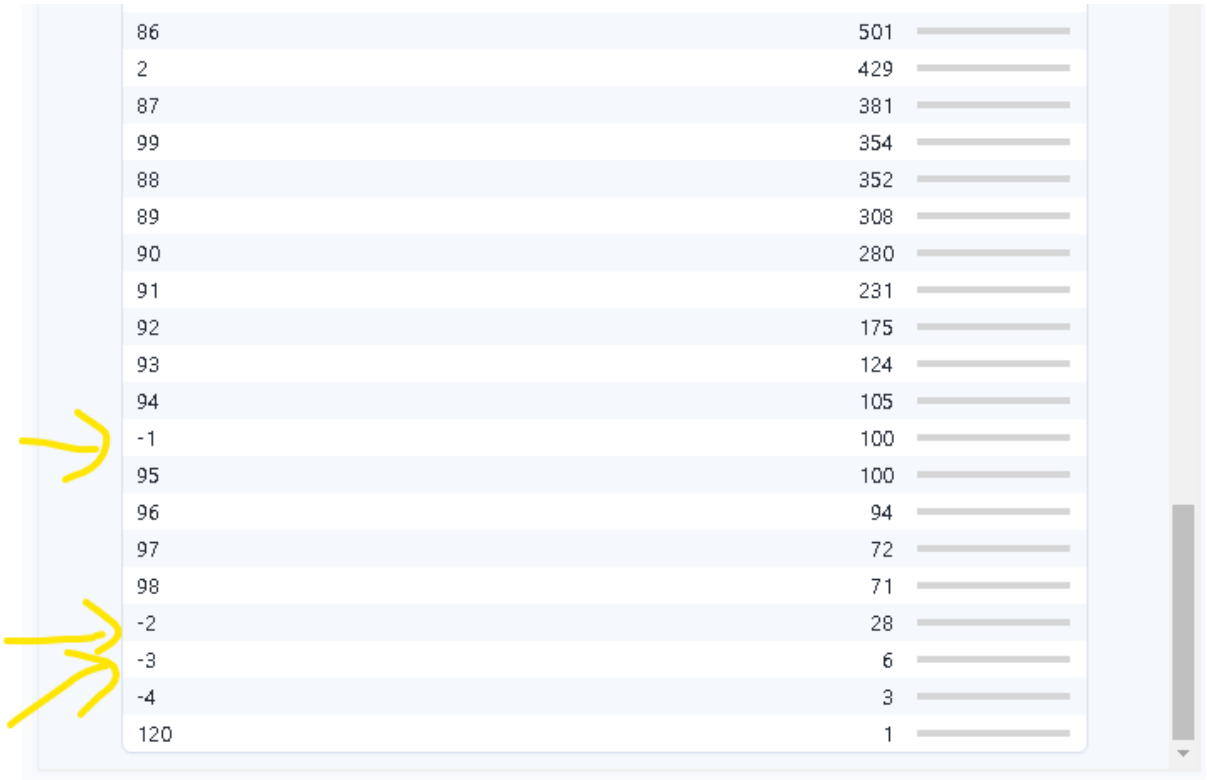
Weapon Desc	Unknown	To maintain String format
Status	Unknown	To maintain String format
Crm Cd [1-4]	-1	To maintain number format
Cross Street	Unknown	To maintain String format

2. Leading and trailing whitespaces

There are no leading and trailing whitspaces in any of the columns in the entire dataset

3. Negative values and ‘0’ present in age

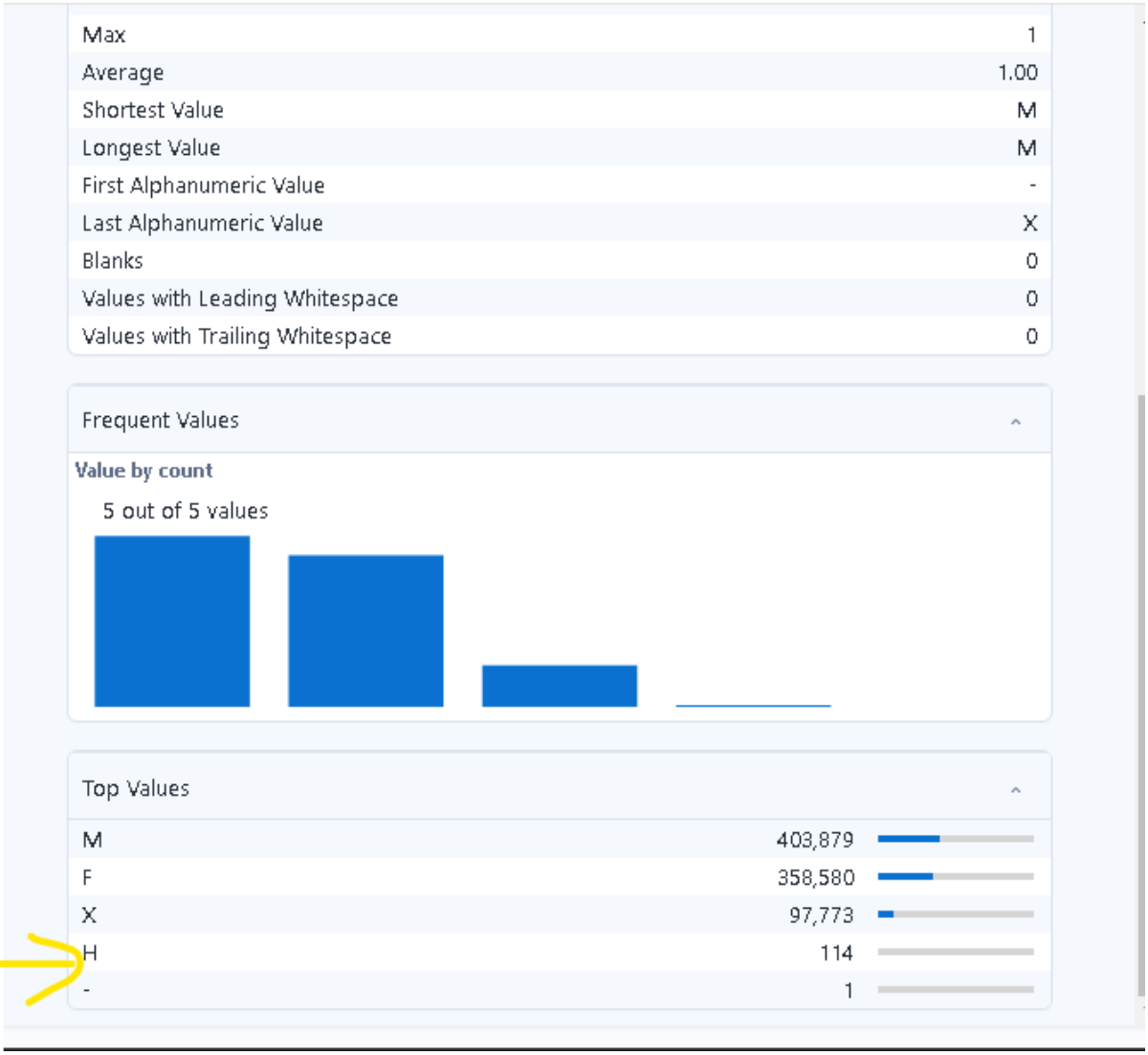
Some values for the age column are having ‘0’ and in negative as well



86	501
2	429
87	381
99	354
88	352
89	308
90	280
91	231
92	175
93	124
94	105
-1	100
95	100
96	94
97	72
98	71
-2	28
-3	6
-4	3
120	1

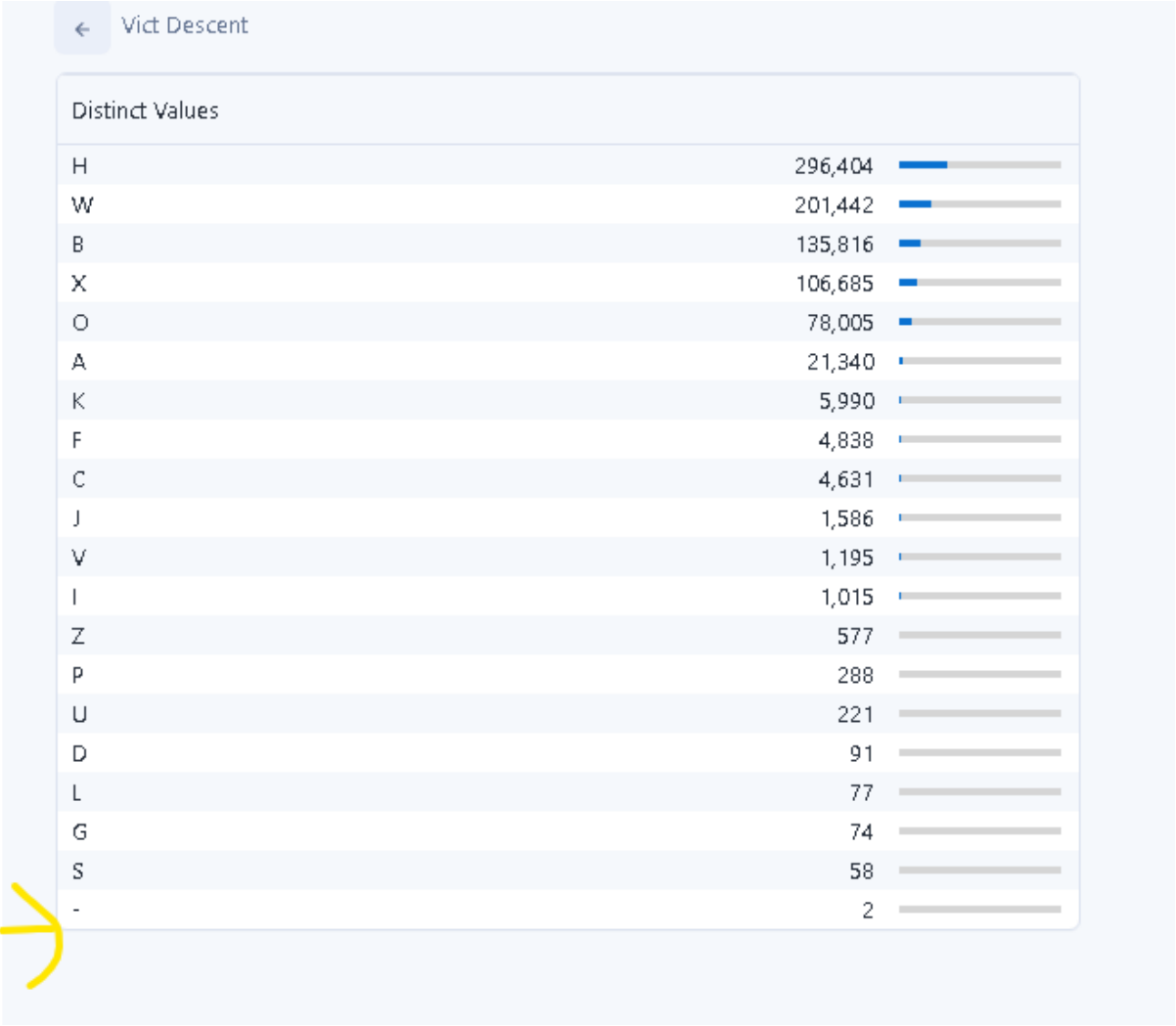
Action: Replace all those values with 99999

4. Some values in **Vict Sex** field are as ‘H’ and ‘– ‘ (M=Male ,F- Female, X=Unknown)



Action- Replace ‘H’ and ‘-‘ with X(unknown as per site)

5. **Vict Descent** field has '–' value



Action- Replace '-' with X(Unknown as per site)

6.Some values under **Prem Desc** field have * at the end

MTA - RED LINE - NORTH HOLLYWOOD	1,023
MISSIONS/SHELTERS	1,017
THE GROVE	985
TRANSIENT ENCAMPMENT	840
BEAUTY/BARBER SHOP	787
LIBRARY	777
MOBILE HOME/TRAILERS/CONSTRUCTION TRAILERS/RV'S/M...	777
BAR/SPORTS BAR (OPEN DAY & NIGHT)	771
TRANSITIONAL HOUSING/HALFWAY HOUSE	760
GROUP HOME	758
MTA - RED LINE - 7TH AND METRO CENTER	689
PATIO*	662
MTA PROPERTY OR PARKING LOT	647
WEBSITE	640
MTA - RED LINE - PERSHING SQUARE	568
MTA - RED LINE - UNION STATION	568
AUTO SUPPLY STORE*	560
SPECIALTY SCHOOL/OTHER	552
CAR WASH	540
BEAUTY SUPPLY STORE	519
MEMBERSHIP STORE (COSTCO,SAMS CLUB)*	514
TOBACCO SHOP	488
HARDWARE/BUILDING SUPPLY	456
THE BEVERLY CONNECTION	452
PHARMACY INSIDE STORE OR SUPERMARKET*	451
AUTO DEALERSHIP (CHEVY, FORD, BMW, MERCEDES, ETC.)	440
JEWELRY STORE	436

Plan of action: Replace("*","")

7. Lat field

In latitude field there is ‘0’ as well

34.1903	2,705
34.1938	2,623
34.0998	2,598
34.0636	2,487
34.1576	2,454
34.0736	2,449
34.2011	2,405
34.0981	2,366
34.0761	2,343
34.0483	2,299
34.2048	2,252
0	2,240
33.9456	2,116
34.0944	2,044
34.1976	1,999
34.1794	1,942
34.0467	1,938

Action- Replace ‘0’ with ‘99999’

8. Lon field

Longtitude has ‘0’ for some records

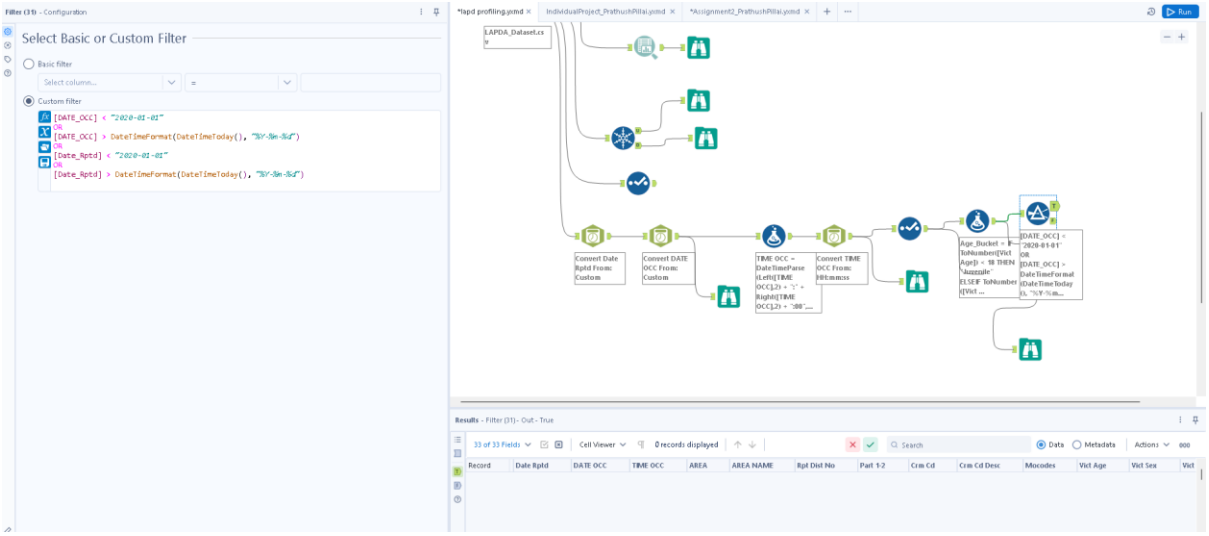
-118.2783	3,759
-118.2916	3,731
-118.309	3,629
-118.4662	2,725
-118.2695	2,655
-118.3002	2,568
-118.2375	2,551
-118.3965	2,517
-118.287	2,515
-118.4487	2,460
-118.6059	2,406
-118.5361	2,312
-118.3703	2,252
0	2,240
-118.3092	2,181
-118.263	2,175
-118.2917	2,161
-118.3563	2,153
-118.2631	2,146
-118.2565	2,128
-118.2586	2,028

Action- Replace ‘0’ with ‘-99999’

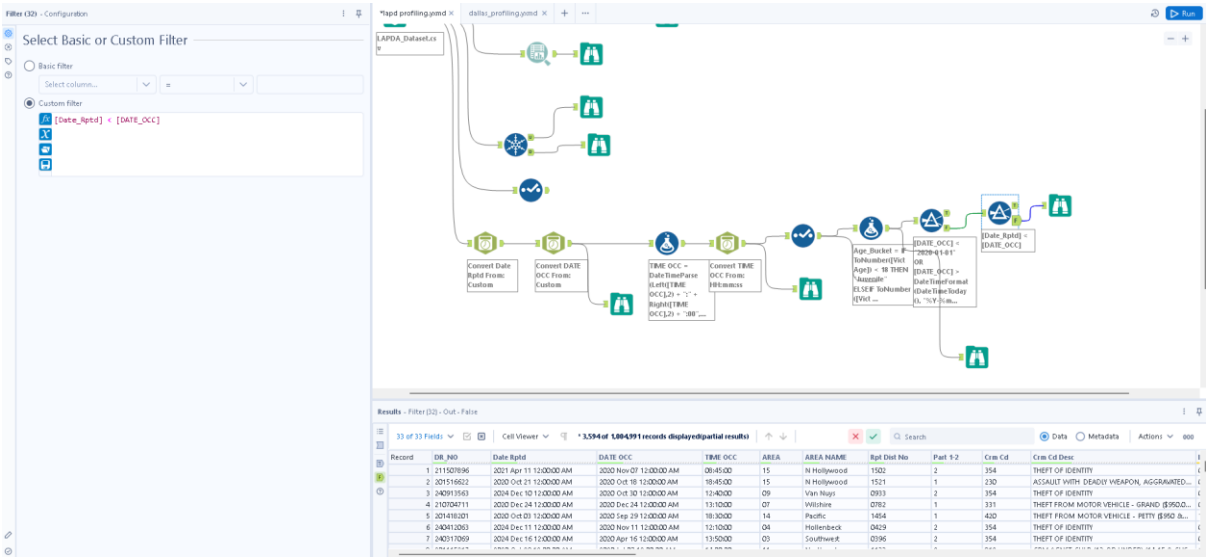
Crm Cd1 and Crm Cd fields are the same

9 . Valid Data range:

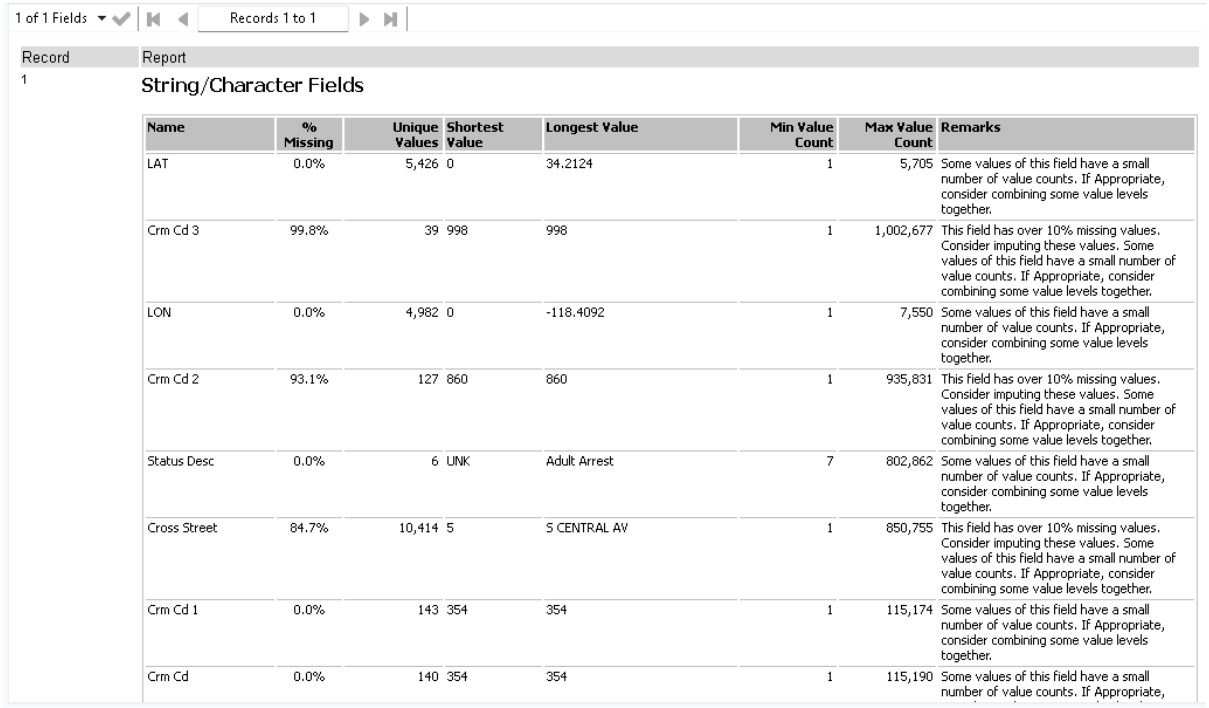
Using the filter tool checked the records to make sure nothing is beyond 2020 and no records of future are present which showed 0 records falling in the criteria:



10. Checking if there are any data where Reported Date is before Occurrence Date which is impossible. Used the filter to check and there are no such records



Summary Statistics



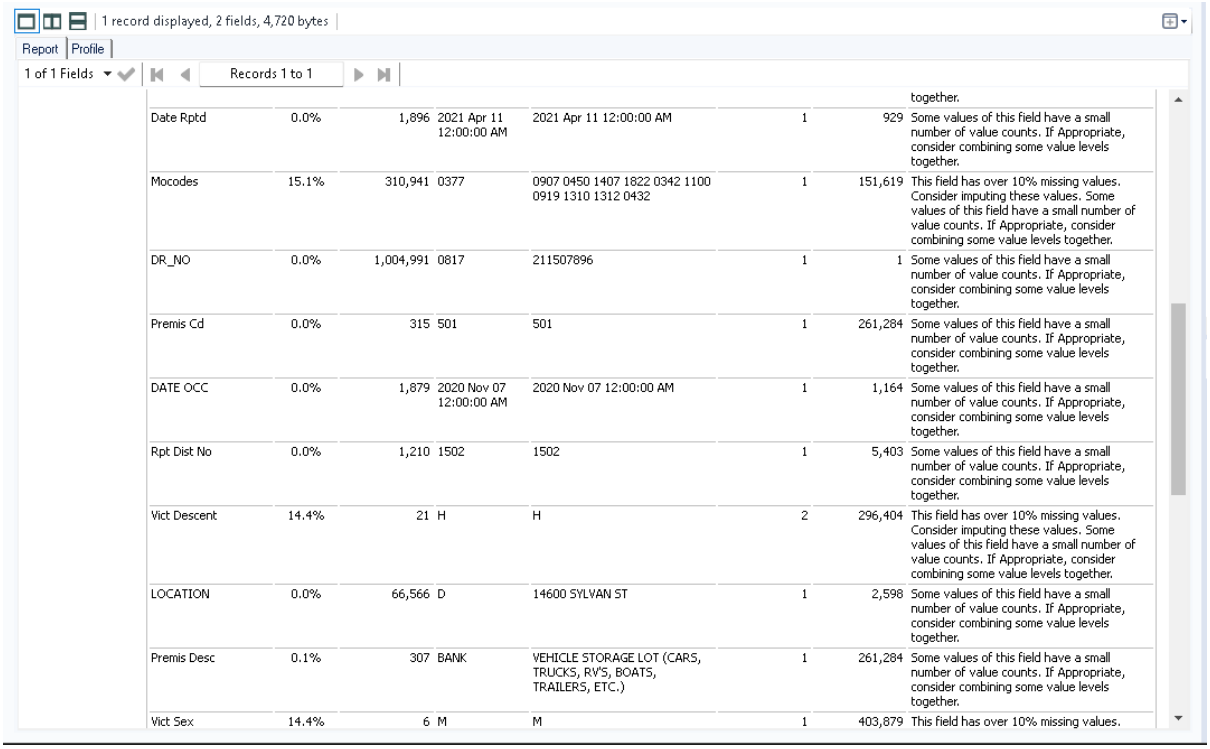
1 of 1 Fields | Records 1 to 1

Record: 1

Report

String/Character Fields

Name	% Missing	Unique Values	Shortest Value	Longest Value	Min Value Count	Max Value Count	Remarks
LAT	0.0%	5,426	0	34.2124	1	5,705	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Crm Cd 3	99.8%	39	998	998	1	1,002,677	This field has over 10% missing values. Consider imputing these values. Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
LON	0.0%	4,982	0	-118.4092	1	7,550	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Crm Cd 2	93.1%	127	860	860	1	935,831	This field has over 10% missing values. Consider imputing these values. Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Status Desc	0.0%	6	UNK	Adult Arrest	7	802,862	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Cross Street	84.7%	10,414	5	S CENTRAL AV	1	850,755	This field has over 10% missing values. Consider imputing these values. Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Crm Cd 1	0.0%	143	354	354	1	115,174	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Crm Cd	0.0%	140	354	354	1	115,190	Some values of this field have a small number of value counts. If Appropriate,

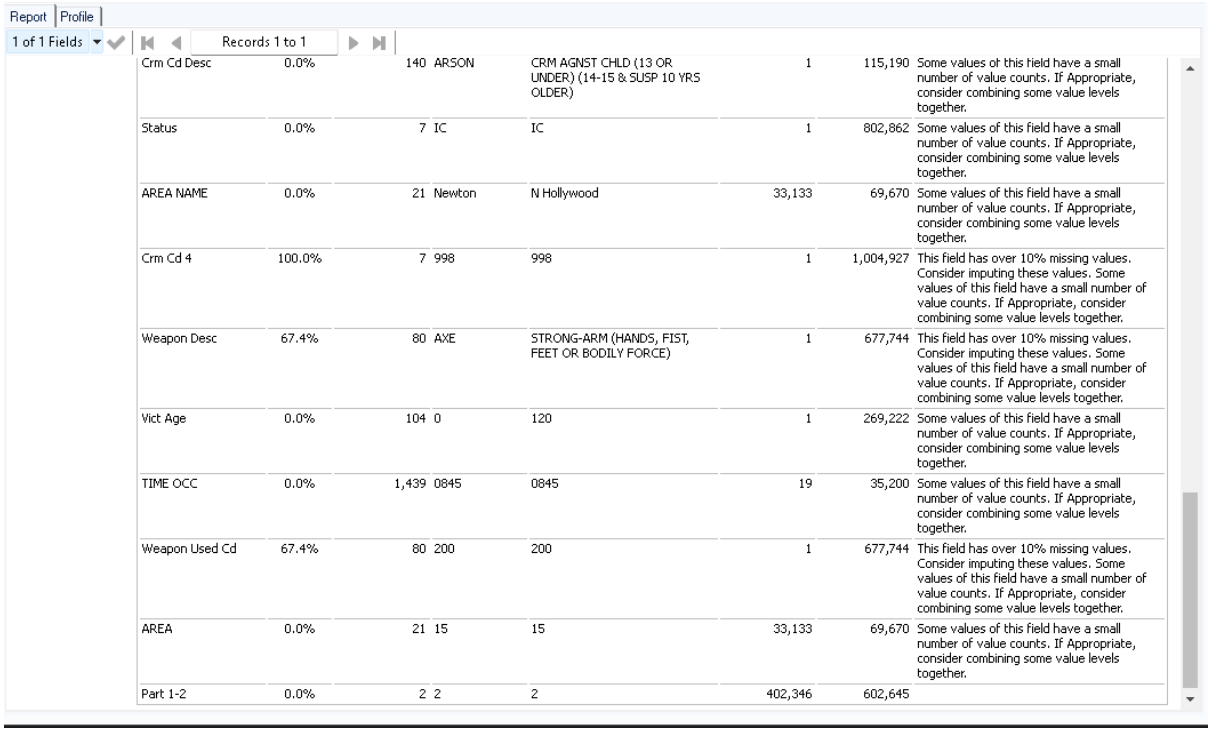


1 record displayed, 2 fields, 4,720 bytes

Report | Profile

1 of 1 Fields | Records 1 to 1

							together.
Date Rptd	0.0%	1,896	2021 Apr 11 12:00:00 AM	2021 Apr 11 12:00:00 AM	1	929	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Mocodes	15.1%	310,941	0377	0907 0450 1407 1822 0342 1100 0919 1310 1312 0432	1	151,619	This field has over 10% missing values. Consider imputing these values. Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
DR_NO	0.0%	1,004,991	0817	211507896	1	1	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Premis Cd	0.0%	315	501	501	1	261,284	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
DATE OCC	0.0%	1,879	2020 Nov 07 12:00:00 AM	2020 Nov 07 12:00:00 AM	1	1,164	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Rpt Dist No	0.0%	1,210	1502	1502	1	5,403	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Vict Descent	14.4%	21	H	H	2	296,404	This field has over 10% missing values. Consider imputing these values. Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
LOCATION	0.0%	66,566	D	14600 SYLVAN ST	1	2,598	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Premis Desc	0.1%	307	BANK	VEHICLE STORAGE LOT (CARS, TRUCKS, RV'S, BOATS, TRAILERS, ETC.)	1	261,284	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Vict Sex	14.4%	6	M	M	1	403,879	This field has over 10% missing values.

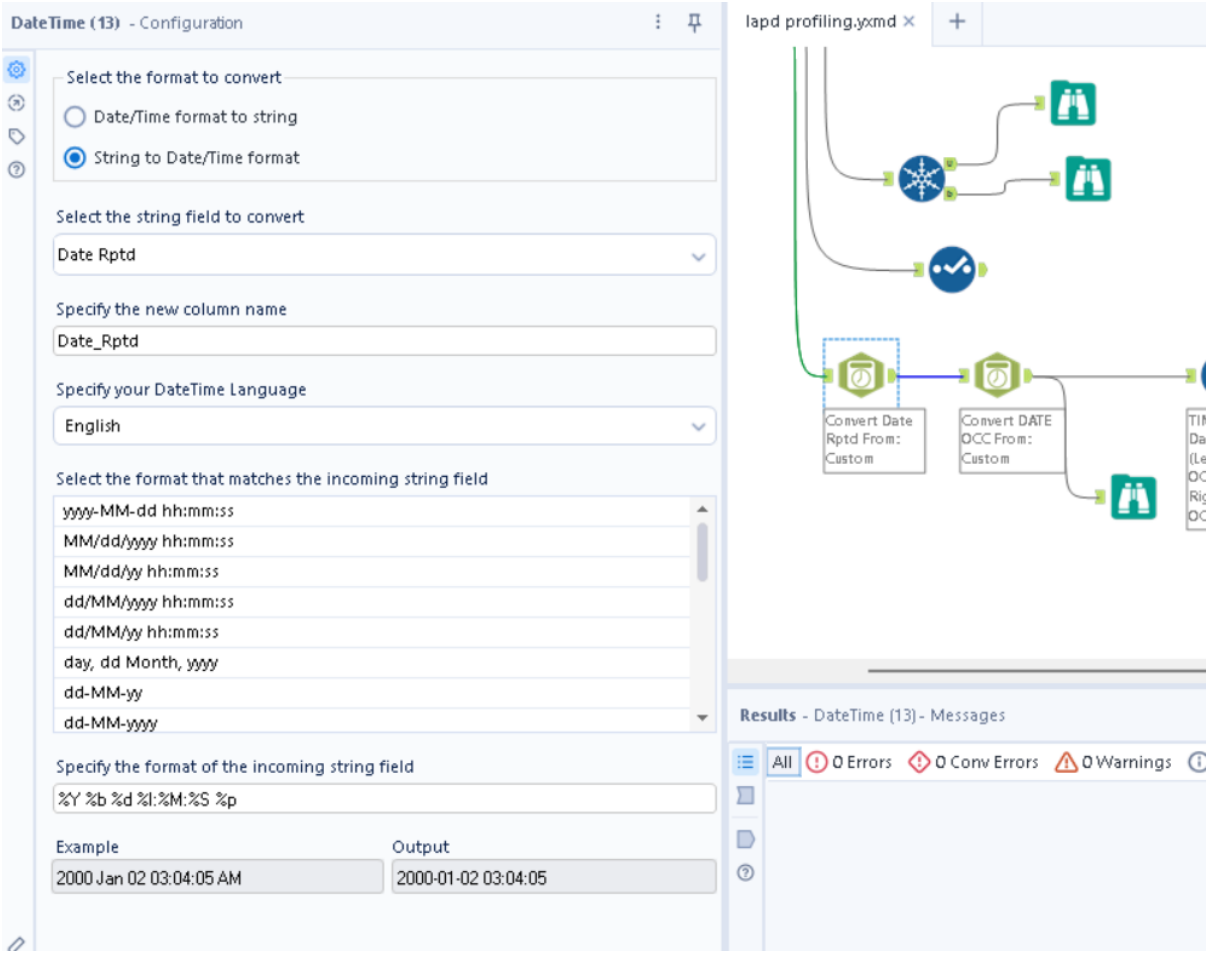


Crm Cd Desc	0.0%	140	ARSON	CRM AGNST CHLD (13 OR UNDER) (14-15 & SUSP 10 YRS OLDER)	1	115,190	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Status	0.0%	7	IC	IC	1	802,862	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
AREA NAME	0.0%	21	Newton	N Hollywood	33,133	69,670	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Crm Cd 4	100.0%	7	998	998	1	1,004,927	This field has over 10% missing values. Consider imputing these values. Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Weapon Desc	67.4%	80	AXE	STRONG-ARM (HANDS, FIST, FEET OR BODILY FORCE)	1	677,744	This field has over 10% missing values. Consider imputing these values. Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Vict Age	0.0%	104	0	120	1	269,222	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
TIME OCC	0.0%	1,439	0845	0845	19	35,200	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Weapon Used Cd	67.4%	80	200	200	1	677,744	This field has over 10% missing values. Consider imputing these values. Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
AREA	0.0%	21	15	15	33,133	69,670	Some values of this field have a small number of value counts. If Appropriate, consider combining some value levels together.
Part 1-2	0.0%	2	2	2	402,346	602,645	

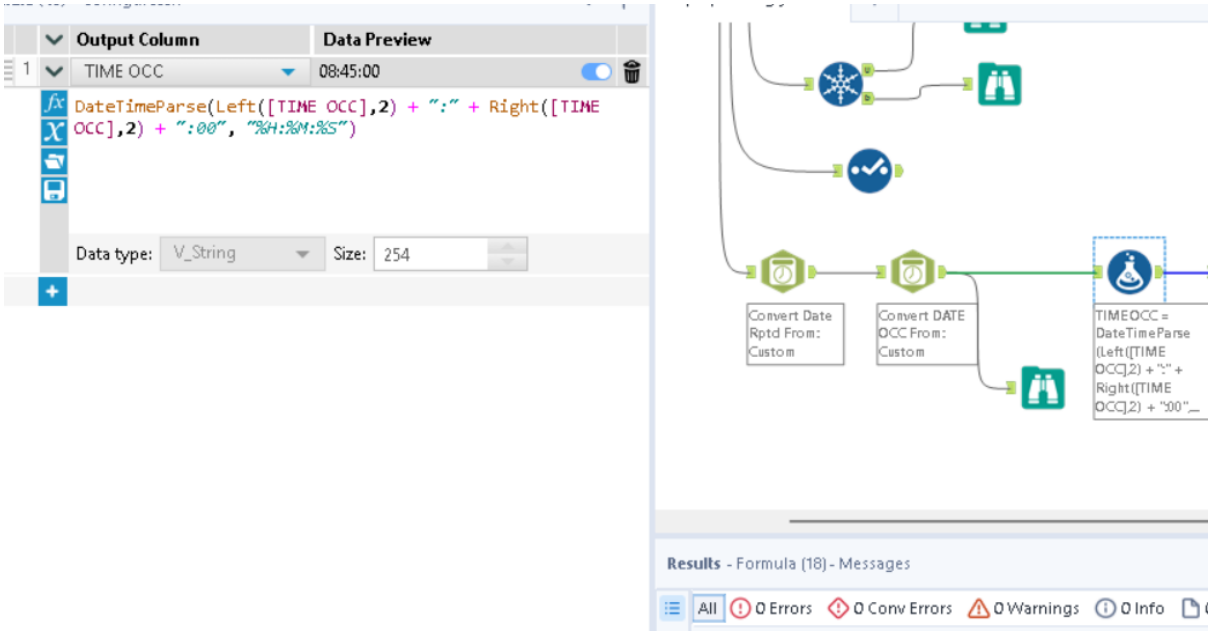
Data Cleaning:

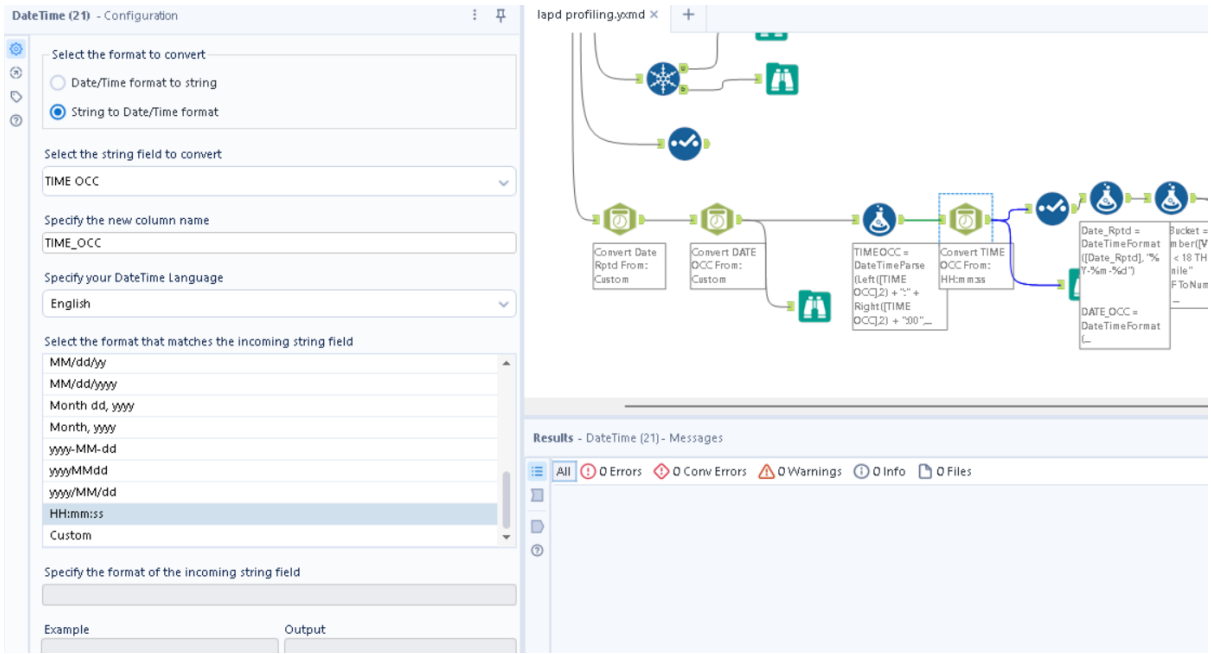
For cleaning have done the following steps in alteryx before exporting to csv file:

1. Date Rptd and Date Occ field has been converted from string to Date/Time

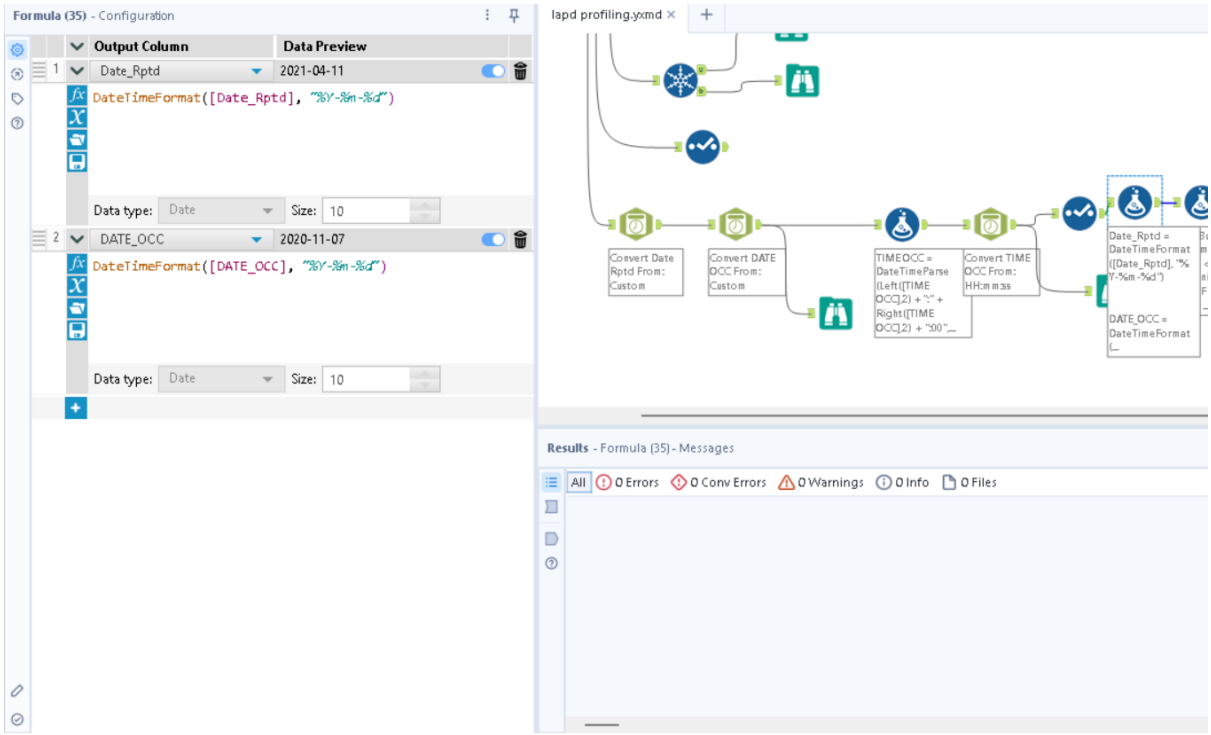


2.For the Time Occ since it was in 4 digits made it to HH:MM:SS format and converted it from string to date/time



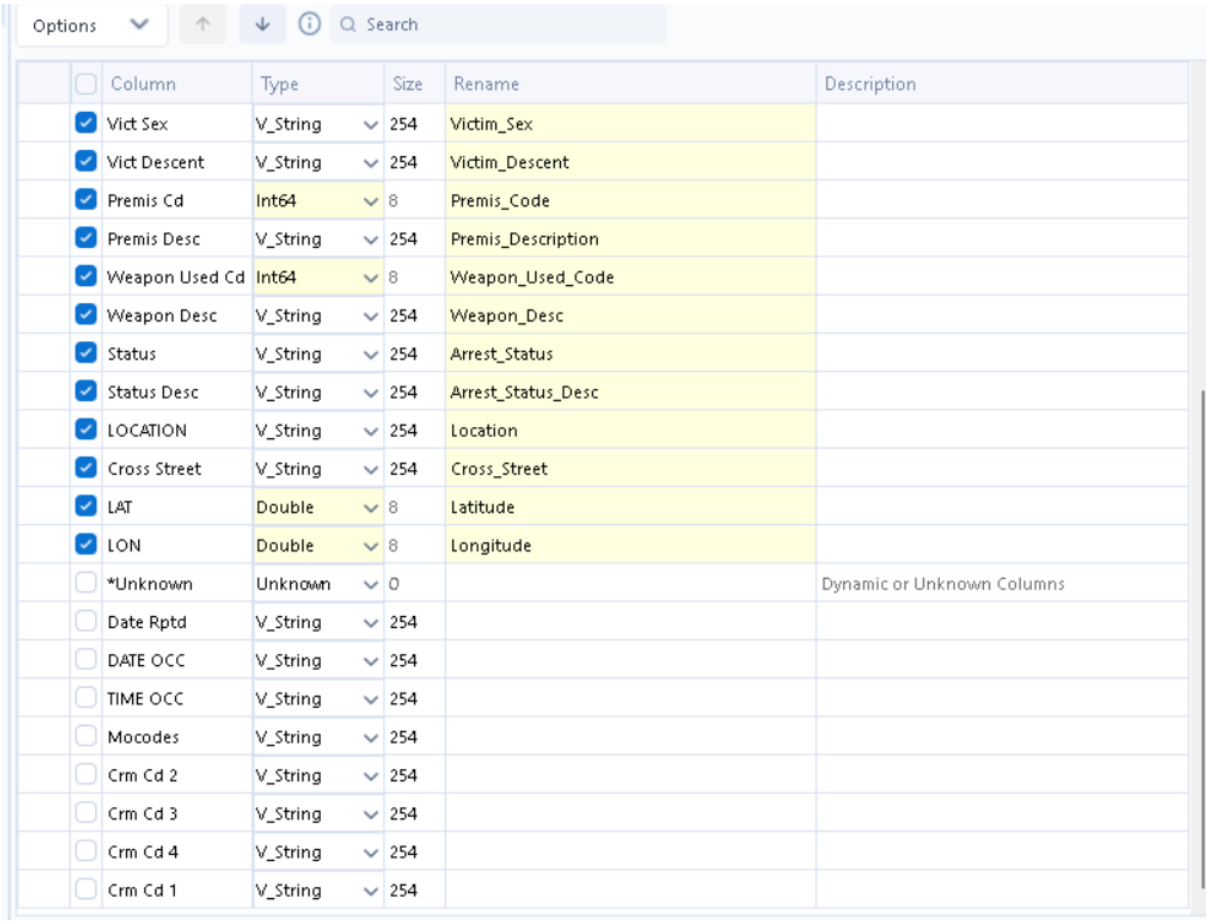


3. Then for the Date_Rptd and Date_Occ since only the date part is need and time is just a placeholder/relevant extracted only the date part



4 .Used the select tool to rename the columns as per Dimensional model and also dropped fields which were not required and changed data types of some fields:

Column	Type	Size	Rename	Description
DR_NO	V_String	254	File_Number	
Date_Rptd	Date	10	Date_Reported	
DATE_OCC	Date	10	Date_Occured	
TIME_OCC	Time	8	Time_Occured	
Age_Bucket	V_String	214...	Victim_Age_Category	
Time_Bucket	V_WString	107...	Period_of_Day	
AREA	Int64	8	Area	
AREA NAME	V_String	254	Area_Name	
Rpt Dist No	Int64	8	Reported_District_No	
Part 1-2	Int64	8	Part_1_2	
Crm Cd	Int64	8	Crime_Code	
Crm Cd Desc	V_String	254	Crime_Code_Desc	
Vict Age	Int64	8	Victim_Age	
Vict Sex	V_String	254	Victim_Sex	
Vict Descent	V_String	254	Victim_Descent	
Premis Cd	Int64	8	Premis_Code	
Premis Desc	V_String	254	Premis_Description	
Weapon Used Cd	Int64	8	Weapon_Used_Code	
Weapon Desc	V_String	254	Weapon_Desc	
Status	V_String	254	Arrest_Status	
Status Desc	V_String	254	Arrest_Status_Desc	



Column	Type	Size	Rename	Description
Vict Sex	V_String	254	Victim_Sex	
Vict Descent	V_String	254	Victim_Descent	
Premis Cd	Int64	8	Premis_Code	
Premis Desc	V_String	254	Premis_Description	
Weapon Used Cd	Int64	8	Weapon_Used_Code	
Weapon Desc	V_String	254	Weapon_Desc	
Status	V_String	254	Arrest_Status	
Status Desc	V_String	254	Arrest_Status_Desc	
LOCATION	V_String	254	Location	
Cross Street	V_String	254	Cross_Street	
LAT	Double	8	Latitude	
LON	Double	8	Longitude	
*Unknown	Unknown	0		Dynamic or Unknown Columns
Date Rptd	V_String	254		
DATE OCC	V_String	254		
TIME OCC	V_String	254		
Mocodes	V_String	254		
Crm Cd 2	V_String	254		
Crm Cd 3	V_String	254		
Crm Cd 4	V_String	254		
Crm Cd 1	V_String	254		

Then In Databricks from the bronze layer(created via csv in volume) ,did the following cleaning in the silver layer and also changed the datatypes which was to be done:

For Victim_Sex field replace all nulls, 'H' ,'-' with X

For Victim_Descent field replace all nulls ,'-' with X

For Victim_Age replace '0' and all negative values with '99999'

For Premis_Code field replace all nulls with -1

For Premis_Description field replace nulls with 'Unknown' ,also remove the "*" at the end of the values

For Weapon_Used_Code field replace nulls with '-1'

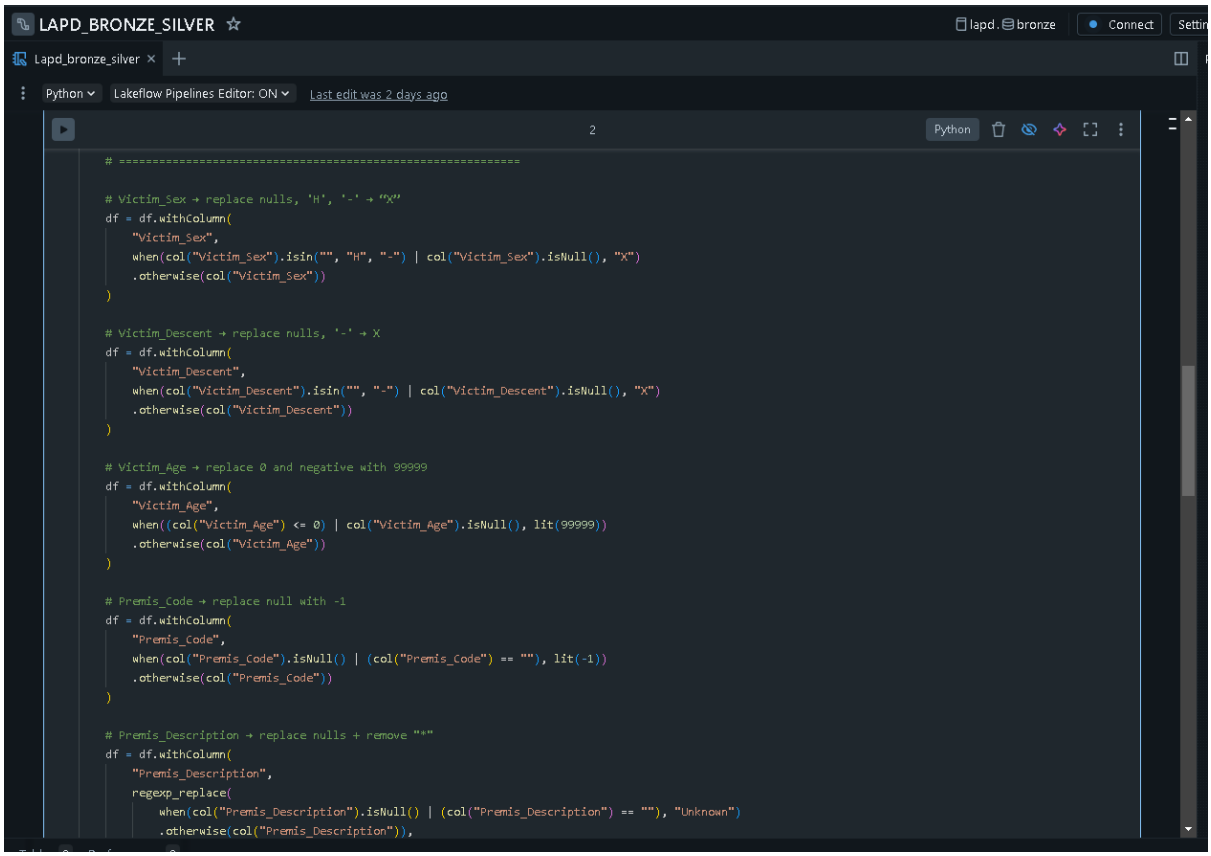
For Weapon_Desc field replace nulls with 'Unknown'

For Arrest_Status field replace nulls with 'Unknown'

For Cross_Street field replace nulls with 'Unknown'

For Latitude replace '0' with '99999'

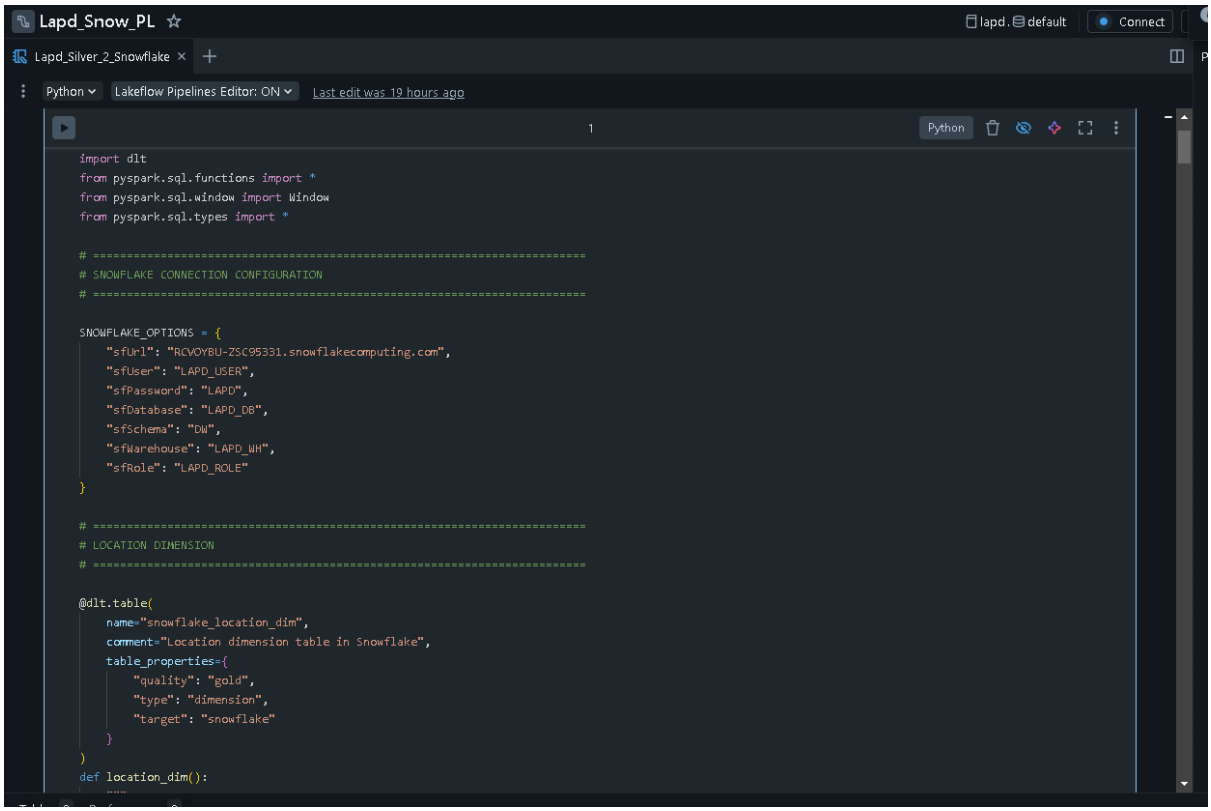
For longitude replace '0' with '-99999'

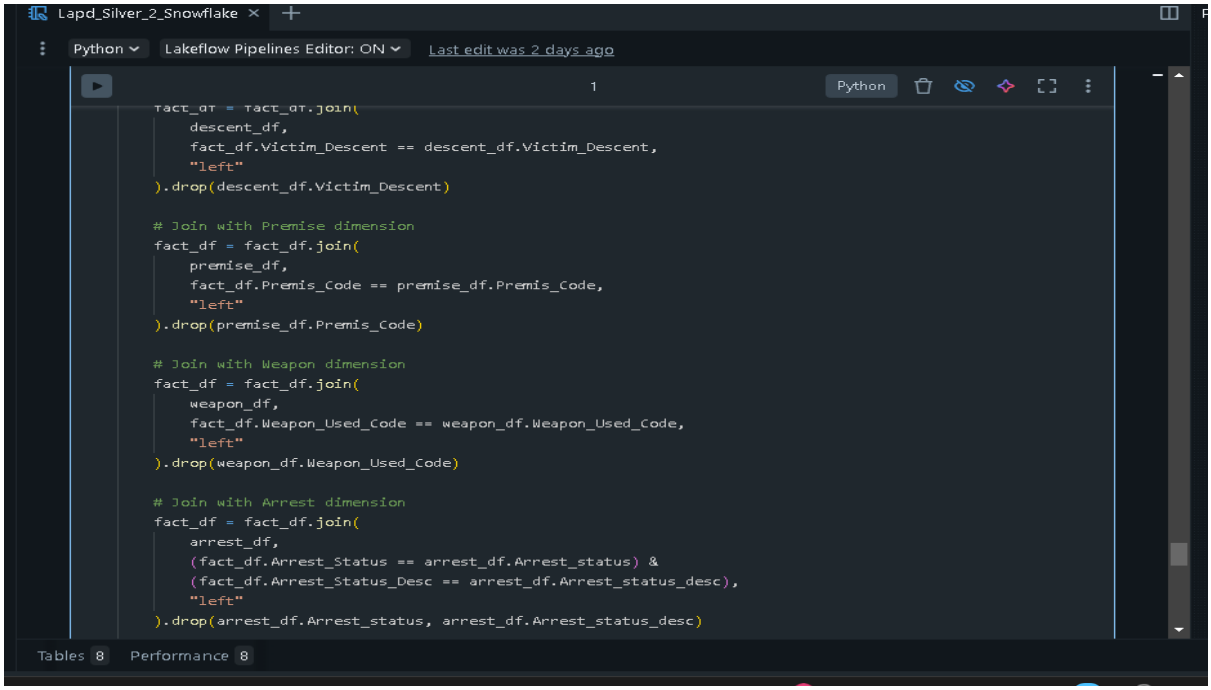


```python
# Weapon_Used_Code → nulls → -1
df = df.withColumn(
    "Weapon_Used_Code",
    when(col("Weapon_Used_Code").isNull() | (col("Weapon_Used_Code") == ""), lit(-1))
    .otherwise(col("Weapon_Used_Code"))
)

# Weapon Desc → nulls → Unknown
df = df.withColumn(
    "Weapon_Desc",
    when(col("Weapon_Desc").isNull() | (col("Weapon_Desc") == ""), "Unknown")
    .otherwise(col("Weapon_Desc"))
)

# Arrest Status → nulls → Unknown
df = df.withColumn(
    "Arrest_Status",
    when(col("Arrest_Status").isNull() | (col("Arrest_Status") == ""), "Unknown")
    .otherwise(col("Arrest_Status"))
)

# Cross Street → nulls → Unknown
df = df.withColumn(
    "Cross_Street",
    when(col("Cross_Street").isNull() | (col("Cross_Street") == ""), "Unknown")
    .otherwise(col("Cross_Street"))
)

# Latitude → 0 → 99999
df = df.withColumn(
    "Latitude",
    when(col("Latitude") == 0, lit(99999)).otherwise(col("Latitude"))
)
```

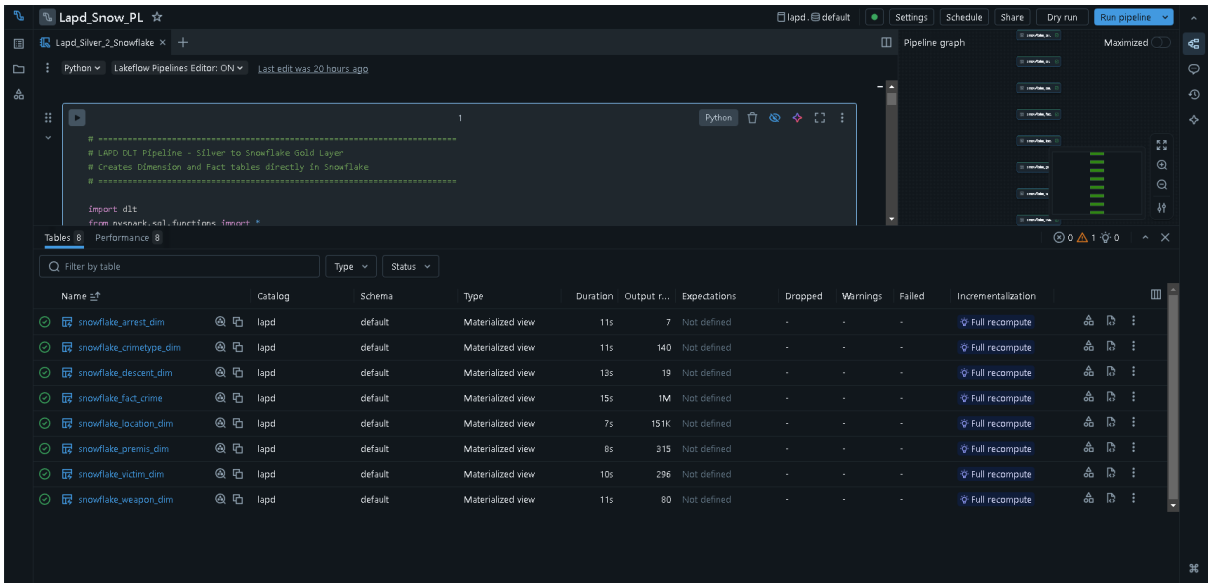
```python
    # Latitude → 0 → 99999
    df = df.withColumn(
        "Latitude",
        when(col("Latitude") == 0, lit(99999)).otherwise(col("Latitude"))
    )

    # Longitude → 0 → -99999
    df = df.withColumn(
        "Longitude",
        when(col("Longitude") == 0, lit(-99999)).otherwise(col("Longitude"))
    )

    # ============================================================
    # DATATYPE CASTING (STRICTLY AS YOU REQUESTED)
    # ============================================================

    df = (
        df
        .withColumn("Date_Reported", to_date("Date_Reported"))
        .withColumn("Date_Occured", to_date("Date_Occured"))
        .withColumn("Time_Occured",date_format(to_timestamp("Time_Occured", "HH:mm:ss"), "HH:mm:ss"))
        .withColumn("Area", col("Area").cast("INT"))
        .withColumn("Reported_District_No", col("Reported_District_No").cast("INT"))
        .withColumn("Part_1_2", col("Part_1_2").cast("INT"))
        .withColumn("Crime_Code", col("Crime_Code").cast("INT"))
        .withColumn("Victim_Age", col("Victim_Age").cast("INT"))
        .withColumn("Premis_Code", col("Premis_Code").cast("INT"))
        .withColumn("Weapon_Used_Code", col("Weapon_Used_Code").cast("INT"))
        .withColumn("Latitude", col("Latitude").cast("DOUBLE"))
        .withColumn("Longitude", col("Longitude").cast("DOUBLE"))
    )

    return df
```

Below is the snapshot of the code used to load the facts and dimensions onto snowflake ie silver to gold

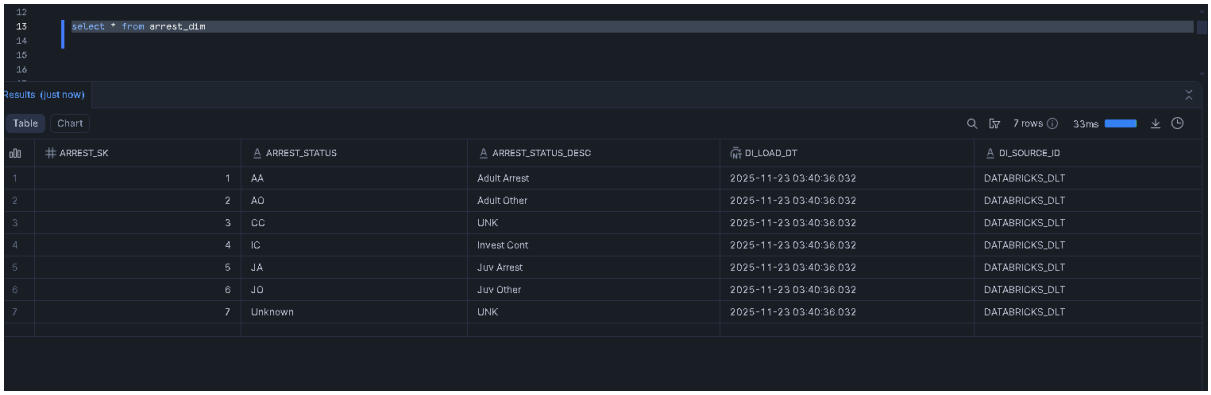


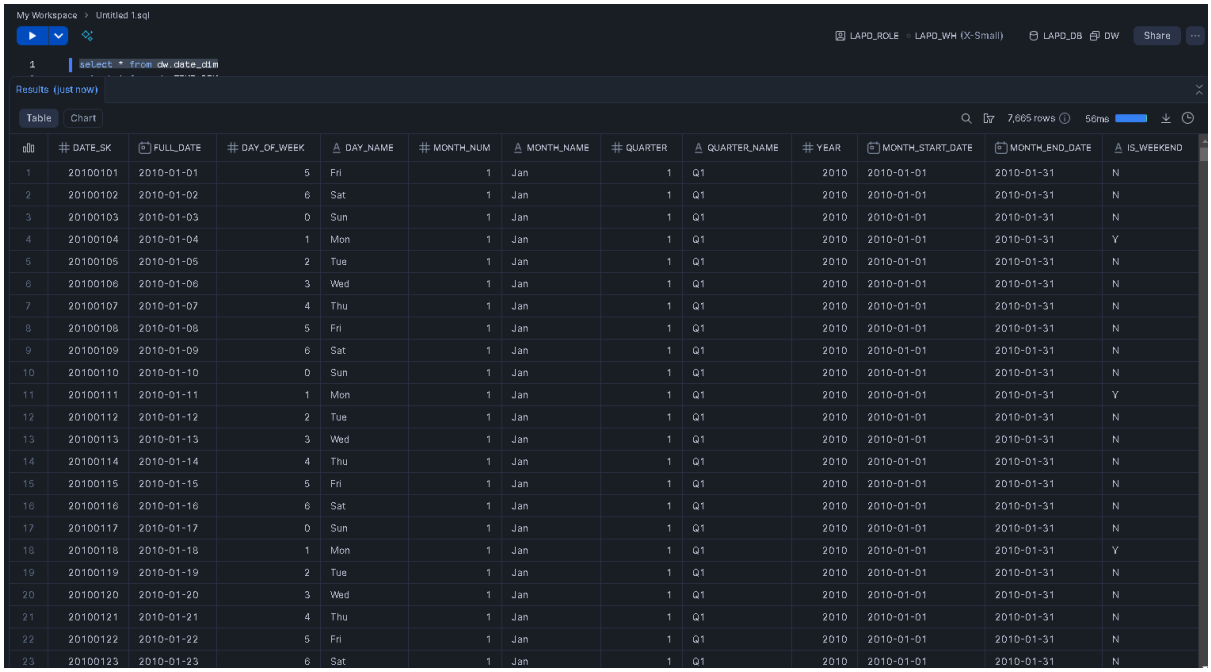


Ran the pipeline:

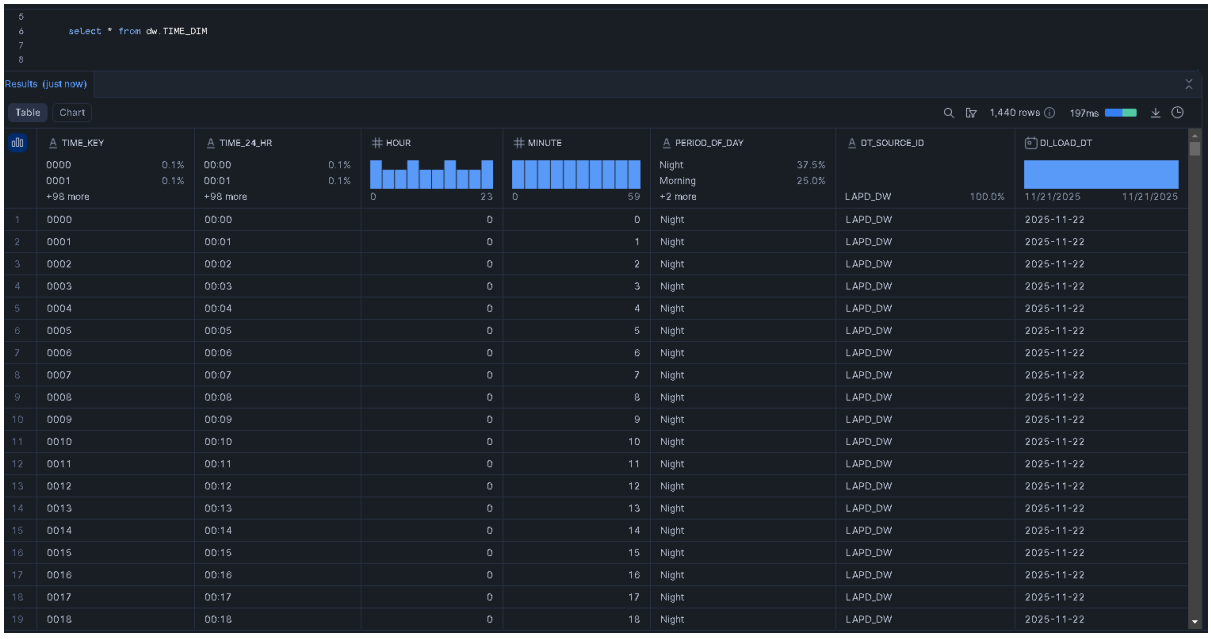


Output of facts and dimensions on snowflake:





	DATE_SK	FULL_DATE	DAY_OF_WEEK	DAY_NAME	MONTH_NUM	MONTH_NAME	QUARTER	QUARTER_NAME	YEAR	MONTH_START_DATE	MONTH_END_DATE	IS_WEEKEND
1	20100101	2010-01-01	5	Fri	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
2	20100102	2010-01-02	6	Sat	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
3	20100103	2010-01-03	0	Sun	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
4	20100104	2010-01-04	1	Mon	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	Y
5	20100105	2010-01-05	2	Tue	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
6	20100106	2010-01-06	3	Wed	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
7	20100107	2010-01-07	4	Thu	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
8	20100108	2010-01-08	5	Fri	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
9	20100109	2010-01-09	6	Sat	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
10	20100110	2010-01-10	0	Sun	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
11	20100111	2010-01-11	1	Mon	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	Y
12	20100112	2010-01-12	2	Tue	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
13	20100113	2010-01-13	3	Wed	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
14	20100114	2010-01-14	4	Thu	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
15	20100115	2010-01-15	5	Fri	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
16	20100116	2010-01-16	6	Sat	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
17	20100117	2010-01-17	0	Sun	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
18	20100118	2010-01-18	1	Mon	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	Y
19	20100119	2010-01-19	2	Tue	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
20	20100120	2010-01-20	3	Wed	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
21	20100121	2010-01-21	4	Thu	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
22	20100122	2010-01-22	5	Fri	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N
23	20100123	2010-01-23	6	Sat	1	Jan	1	Q1	2010	2010-01-01	2010-01-31	N



	TIME_KEY	TIME_24_HR	HOUR	MINUTE	PERIOD_OF_DAY	DT_SOURCE_ID	DI_LOAD_DT
	0000 0.1% 0001 0.1% +98 more	00:00 0.1% 00:01 0.1% +98 more	0 23	0 59	Night 37.5% Morning 25.0% +2 more	LAPD_DW 100.0%	11/21/2025 11/21/2025
1	0000	00:00	0	0	Night	LAPD_DW	2025-11-22
2	0001	00:01	0	1	Night	LAPD_DW	2025-11-22
3	0002	00:02	0	2	Night	LAPD_DW	2025-11-22
4	0003	00:03	0	3	Night	LAPD_DW	2025-11-22
5	0004	00:04	0	4	Night	LAPD_DW	2025-11-22
6	0005	00:05	0	5	Night	LAPD_DW	2025-11-22
7	0006	00:06	0	6	Night	LAPD_DW	2025-11-22
8	0007	00:07	0	7	Night	LAPD_DW	2025-11-22
9	0008	00:08	0	8	Night	LAPD_DW	2025-11-22
10	0009	00:09	0	9	Night	LAPD_DW	2025-11-22
11	0010	00:10	0	10	Night	LAPD_DW	2025-11-22
12	0011	00:11	0	11	Night	LAPD_DW	2025-11-22
13	0012	00:12	0	12	Night	LAPD_DW	2025-11-22
14	0013	00:13	0	13	Night	LAPD_DW	2025-11-22
15	0014	00:14	0	14	Night	LAPD_DW	2025-11-22
16	0015	00:15	0	15	Night	LAPD_DW	2025-11-22
17	0016	00:16	0	16	Night	LAPD_DW	2025-11-22
18	0017	00:17	0	17	Night	LAPD_DW	2025-11-22
19	0018	00:18	0	18	Night	LAPD_DW	2025-11-22

```
Ctrl+I to generate
select * from crimetype_dim
```

Results (just now)

Table | Chart — 140 rows — 333ms

	CRIME_SK	CRIME_CODE	CRIME_CODE_DESC	PART_1_2	DI_LOAD_DT	DI_SOURCE_ID
	1 – 140	110 – 956	ARSON 0.7%, ASSAULT WITH DEADLY WEAP... 0.7%, +98 more	1 – 2	11/22/2025 – 11/22/2025	DATABRICKS_DLT 100.0%
1	1	110	CRIMINAL HOMICIDE	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
2	2	113	MANSLAUGHTER, NEGLIGENT	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
3	3	121	RAPE, FORCIBLE	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
4	4	122	RAPE, ATTEMPTED	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
5	5	210	ROBBERY	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
6	6	220	ATTEMPTED ROBBERY	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
7	7	230	ASSAULT WITH DEADLY WEAPON, AGGRA\	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
8	8	231	ASSAULT WITH DEADLY WEAPON ON POLI	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
9	9	235	CHILD ABUSE (PHYSICAL) - AGGRAVATED .	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
10	10	236	INTIMATE PARTNER - AGGRAVATED ASSAL	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
11	11	237	CHILD NEGLECT (SEE 300 W.I.C.)	2	2025-11-23 03:40:27.530	DATABRICKS_DLT
12	12	250	SHOTS FIRED AT MOVING VEHICLE, TRAIN	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
13	13	251	SHOTS FIRED AT INHABITED DWELLING	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
14	14	310	BURGLARY	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
15	15	320	BURGLARY, ATTEMPTED	1	2025-11-23 03:40:27.530	DATABRICKS_DLT
16	16	330	BURGLARY FROM VEHICLE	1	2025-11-23 03:40:27.530	DATABRICKS_DLT

Feedback

18:15:09

```
select * from descent_dim
```

Results (just now)

Table | Chart — 19 rows — 89ms

	DESCENT_SK	VICTIM_DESCENT	DESCENT_DESCRIPTION	DI_LOAD_DT	DI_SOURCE_ID
	1 – 19	A 5.3%, B 5.3%, +17 more	American Indian 5.3%, Asian 5.3%, +17 more	11/22/2025 – 11/22/2025	DATABRICKS_DLT 100.0%
1	1	A	Asian	2025-11-23 03:41:02.707	DATABRICKS_DLT
2	2	B	Black	2025-11-23 03:41:02.707	DATABRICKS_DLT
3	3	C	Chinese	2025-11-23 03:41:02.707	DATABRICKS_DLT
4	4	D	Cambodian	2025-11-23 03:41:02.707	DATABRICKS_DLT
5	5	F	Filipino	2025-11-23 03:41:02.707	DATABRICKS_DLT
6	6	G	Guamanian	2025-11-23 03:41:02.707	DATABRICKS_DLT
7	7	H	Hispanic/Latino/Mexican	2025-11-23 03:41:02.707	DATABRICKS_DLT
8	8	I	American Indian	2025-11-23 03:41:02.707	DATABRICKS_DLT
9	9	J	Japanese	2025-11-23 03:41:02.707	DATABRICKS_DLT
10	10	K	Korean	2025-11-23 03:41:02.707	DATABRICKS_DLT
11	11	L	Laotian	2025-11-23 03:41:02.707	DATABRICKS_DLT
12	12	O	Other	2025-11-23 03:41:02.707	DATABRICKS_DLT
13	13	P	Pacific Islander	2025-11-23 03:41:02.707	DATABRICKS_DLT

```
select * from location_dim
```

sults (just now)

Table | Chart — 150,574 rows — 1.2s

	LOCATION_ID	AREA	AREA_NAME	REPORTING_DISTRICT	LOCATION	CROSS_STREET	LATITUDE	LONGITUDE	DI_SOURCE_ID	DI_LOAD_DT
	1	1	Central	101	00900 FIGUEROA TR	Unknown	34.0663	-118.2442	DATABRICKS_DLT	2025-11-23 03:41:08.919
	2	1	Central	101	1000 ALPINE ST	Unknown	34.0649	-118.2465	DATABRICKS_DLT	2025-11-23 03:41:08.919
	3	1	Central	101	1000 BARTLETT ST	Unknown	34.0646	-118.2474	DATABRICKS_DLT	2025-11-23 03:41:08.919
	4	1	Central	101	1000 EVERETT PL	Unknown	34.0693	-118.2488	DATABRICKS_DLT	2025-11-23 03:41:08.919
	5	1	Central	101	1000 EVERETT ST	Unknown	34.0701	-118.2484	DATABRICKS_DLT	2025-11-23 03:41:08.919
	6	1	Central	101	1000 FIGUEROA TR	Unknown	34.0683	-118.245	DATABRICKS_DLT	2025-11-23 03:41:08.919
	7	1	Central	101	1000 FIGUEROA TER	Unknown	34.0684	-118.2449	DATABRICKS_DLT	2025-11-23 03:41:08.919
	8	1	Central	101	1000 JOELS PL	Unknown	34.0698	-118.2462	DATABRICKS_DLT	2025-11-23 03:41:08.919
	9	1	Central	101	1000 MARVIEW AV	Unknown	34.0698	-118.2476	DATABRICKS_DLT	2025-11-23 03:41:08.919
	10	1	Central	101	1000 WHITE KNOLL DR	Unknown	34.0695	-118.2469	DATABRICKS_DLT	2025-11-23 03:41:08.919
	11	1	Central	101	1000 W COLLEGE ST	Unknown	34.0667	-118.2452	DATABRICKS_DLT	2025-11-23 03:41:08.919
	12	1	Central	101	1000 W SUNSET BL	Unknown	34.0685	-118.246	DATABRICKS_DLT	2025-11-23 03:41:08.919
	13	1	Central	101	1100 ALPINE ST	Unknown	34.0662	-118.2476	DATABRICKS_DLT	2025-11-23 03:41:08.919
	14	1	Central	101	1100 FIGUEROA TR	Unknown	34.0695	-118.2469	DATABRICKS_DLT	2025-11-23 03:41:08.919

```
select * from premis_dim
```

Results (just now)

Table | Chart — 315 rows — 197ms

	PREMIS_SK	PREMIS_CODE	PREMIS_DESC	DI_LOAD_DT	DI_SOURCE_ID
	1 – 315	-1 – 976	Unknown 2.5% RETIRED (DUPLICATE) DO NOT US... 0.6% +98 more	11/22/2025 – 11/22/2025	DATABRICKS_DLT 100.0%
1	1	-1	Unknown	2025-11-23 03:41:18.329	DATABRICKS_DLT
2	2	101	STREET	2025-11-23 03:41:18.329	DATABRICKS_DLT
3	3	102	SIDEWALK	2025-11-23 03:41:18.329	DATABRICKS_DLT
4	4	103	ALLEY	2025-11-23 03:41:18.329	DATABRICKS_DLT
5	5	104	DRIVEWAY	2025-11-23 03:41:18.329	DATABRICKS_DLT
6	6	105	PEDESTRIAN OVERCROSSING	2025-11-23 03:41:18.329	DATABRICKS_DLT
7	7	106	TUNNEL	2025-11-23 03:41:18.329	DATABRICKS_DLT
8	8	107	VACANT LOT	2025-11-23 03:41:18.329	DATABRICKS_DLT
9	9	108	PARKING LOT	2025-11-23 03:41:18.329	DATABRICKS_DLT
10	10	109	PARK/PLAYGROUND	2025-11-23 03:41:18.329	DATABRICKS_DLT
11	11	110	FREEWAY	2025-11-23 03:41:18.329	DATABRICKS_DLT
12	12	111	BUS-CHARTER/PRIVATE	2025-11-23 03:41:18.329	DATABRICKS_DLT

```
select * from victim_dim
```

lts (just now)

able | Chart — 296 rows — 53ms

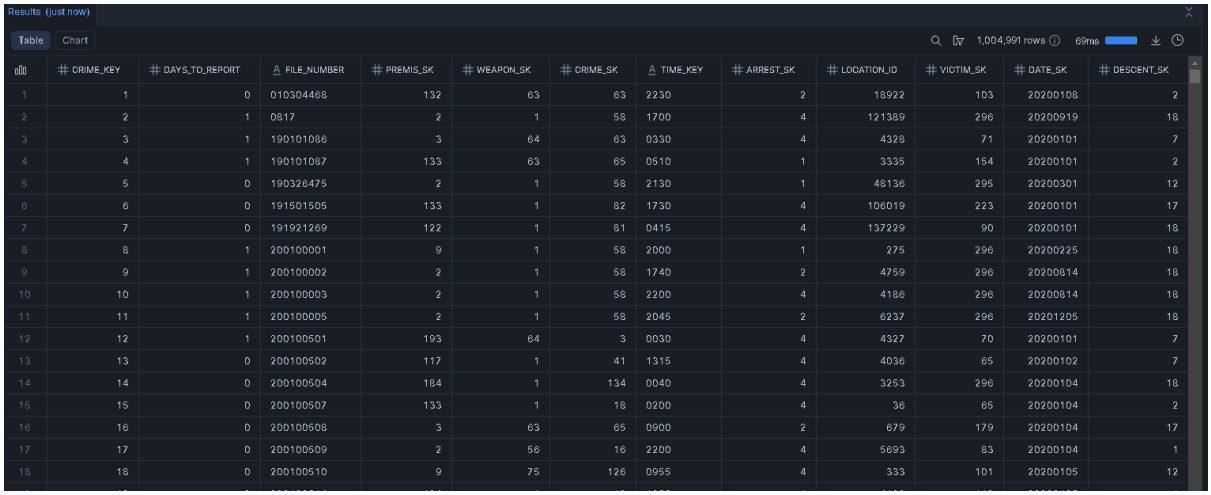
	VICTIM_SK	VICTIM_AGE	VICTIM_AGE_CATEGORY	VICTIM_SEX	DI_LOAD_DT	DI_SOURCE_ID
	1 – 296	2 – 99999	60+ 40.2% Juvenile 16.2% +4 more	F 33.4% M 33.4% +1 more	11/22/2025 – 11/22/2025	DATABRICKS_DLT 100.0%
	1	2	Juvenile	F	2025-11-23 03:41:15.290	DATABRICKS_DLT
	2	2	Juvenile	M	2025-11-23 03:41:15.290	DATABRICKS_DLT
	3	2	Juvenile	X	2025-11-23 03:41:15.290	DATABRICKS_DLT
	4	3	Juvenile	F	2025-11-23 03:41:15.290	DATABRICKS_DLT
	5	3	Juvenile	M	2025-11-23 03:41:15.290	DATABRICKS_DLT
	6	3	Juvenile	X	2025-11-23 03:41:15.290	DATABRICKS_DLT
	7	4	Juvenile	F	2025-11-23 03:41:15.290	DATABRICKS_DLT
	8	4	Juvenile	M	2025-11-23 03:41:15.290	DATABRICKS_DLT
	9	4	Juvenile	X	2025-11-23 03:41:15.290	DATABRICKS_DLT
	10	5	Juvenile	F	2025-11-23 03:41:15.290	DATABRICKS_DLT

```
select * from weapon_dim
```

Results (just now)

Table | Chart — 80 rows — 139ms

	WEAPON_SK	WEAPON_USED_CODE	WEAPON_DESC	DI_LOAD_DT	DI_SOURCE_ID
	1 – 80	-1 – 516	AIR PISTOL/REVOLVER/RIFLE/BB ... 1.3% ANTIQUE FIREARM 1.3% +76 more	11/22/2025 – 11/22/2025	DATABRICKS_DLT 100.0%
1	1	-1	Unknown	2025-11-23 03:41:05.782	DATABRICKS_DLT
2	2	101	REVOLVER	2025-11-23 03:41:05.782	DATABRICKS_DLT
3	3	102	HAND GUN	2025-11-23 03:41:05.782	DATABRICKS_DLT
4	4	103	RIFLE	2025-11-23 03:41:05.782	DATABRICKS_DLT
5	5	104	SHOTGUN	2025-11-23 03:41:05.782	DATABRICKS_DLT
6	6	105	SAWED OFF RIFLE/SHOTGUN	2025-11-23 03:41:05.782	DATABRICKS_DLT
7	7	106	UNKNOWN FIREARM	2025-11-23 03:41:05.782	DATABRICKS_DLT
8	8	107	OTHER FIREARM	2025-11-23 03:41:05.782	DATABRICKS_DLT
9	9	108	AUTOMATIC WEAPON/SUB-MACHINE GUN	2025-11-23 03:41:05.782	DATABRICKS_DLT
10	10	109	SEMI-AUTOMATIC PISTOL	2025-11-23 03:41:05.782	DATABRICKS_DLT
11	11	110	SEMI-AUTOMATIC RIFLE	2025-11-23 03:41:05.782	DATABRICKS_DLT
12	12	111	STARTER PISTOL/REVOLVER	2025-11-23 03:41:05.782	DATABRICKS_DLT
13	13	112	TOY GUN	2025-11-23 03:41:05.782	DATABRICKS_DLT
14	14	113	SIMULATED GUN	2025-11-23 03:41:05.782	DATABRICKS_DLT



Results (just now)

Table | Chart

1,004,991 rows | 69ms

	CRIME_KEY	DAYS_TO_REPORT	FILE_NUMBER	PREMIS_SK	WEAPON_SK	CRIME_SK	TIME_KEY	ARREST_SK	LOCATION_ID	VICTIM_SK	DATE_SK	DESCENT_SK
1	1	0	010304468	132	63	63	2230	2	18922	103	20200108	2
2	2	1	0817	2	1	58	1700	4	121389	296	20200919	18
3	3	1	190101086	3	64	63	0330	4	4328	71	20200101	7
4	4	1	190101087	133	63	65	0510	1	3335	154	20200101	2
5	5	0	190326475	2	1	58	2130	1	48136	295	20200301	12
6	6	0	191501505	133	1	82	1730	4	106019	223	20200101	17
7	7	0	191921269	122	1	81	0415	4	137229	90	20200101	18
8	8	1	200100001	9	1	58	2000	1	275	296	20200225	18
9	9	1	200100002	2	1	58	1740	2	4759	296	20200814	18
10	10	1	200100003	2	1	58	2200	4	4186	296	20200814	18
11	11	1	200100005	2	1	58	2045	2	6237	296	20201205	18
12	12	1	200100501	193	64	3	0030	4	4327	70	20200101	7
13	13	0	200100502	117	1	41	1315	4	4036	65	20200102	7
14	14	0	200100504	184	1	134	0040	4	3253	296	20200104	18
15	15	0	200100507	133	1	18	0200	4	36	65	20200104	2
16	16	0	200100508	3	63	65	0900	2	679	179	20200104	17
17	17	0	200100509	2	56	16	2200	4	5693	83	20200104	1
18	18	0	200100510	9	75	126	0955	4	333	101	20200105	12