

NEWYORK

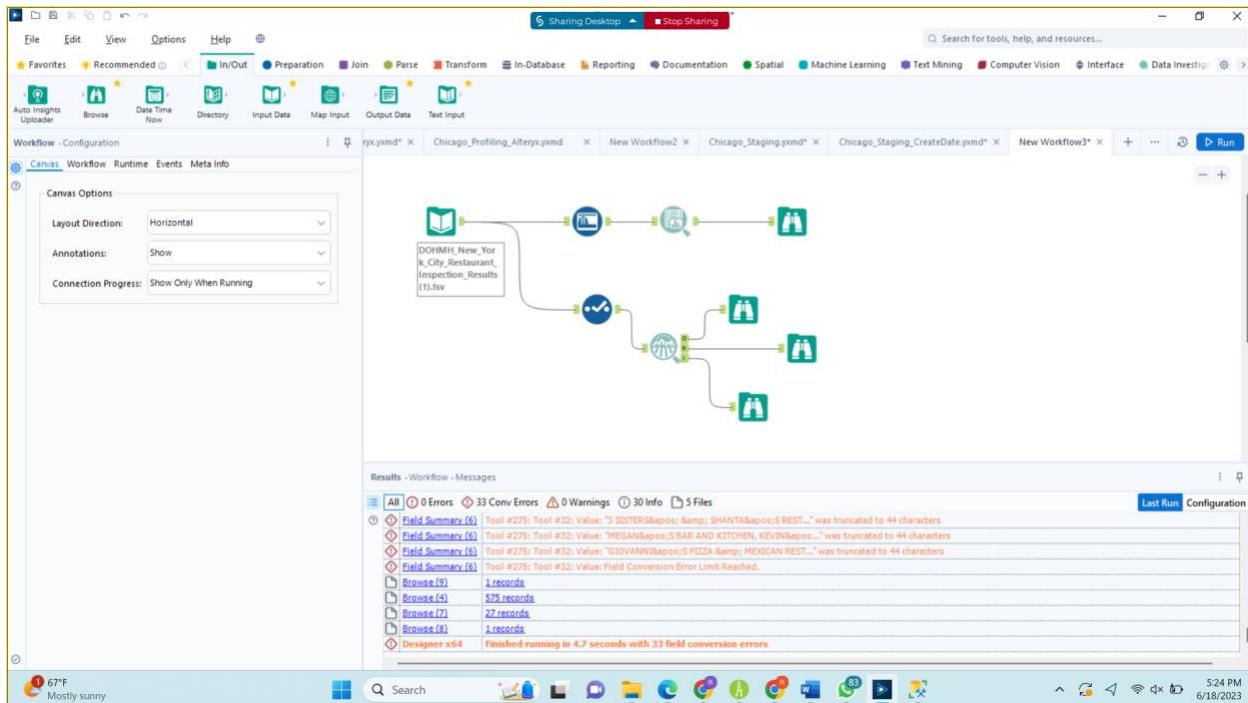
Dataset Description:

The dataset comprises information on sustained or pending violation citations resulting from restaurant and college cafeteria inspections conducted within three years of the most recent inspection. It covers establishments in active status on the RECORD DATE, identified by their unique CAMIS (record ID) number. Records include inspections with multiple violations, and establishments without violations are represented by a single row. New establishments, awaiting inspection, and those with inspection dates of 1/1/1900 are also included. Due to data compilation from various administrative systems, the dataset may contain illogical values or missing data. The dataset aligns with the Health Department's Restaurant Grading website, sharing a common data source

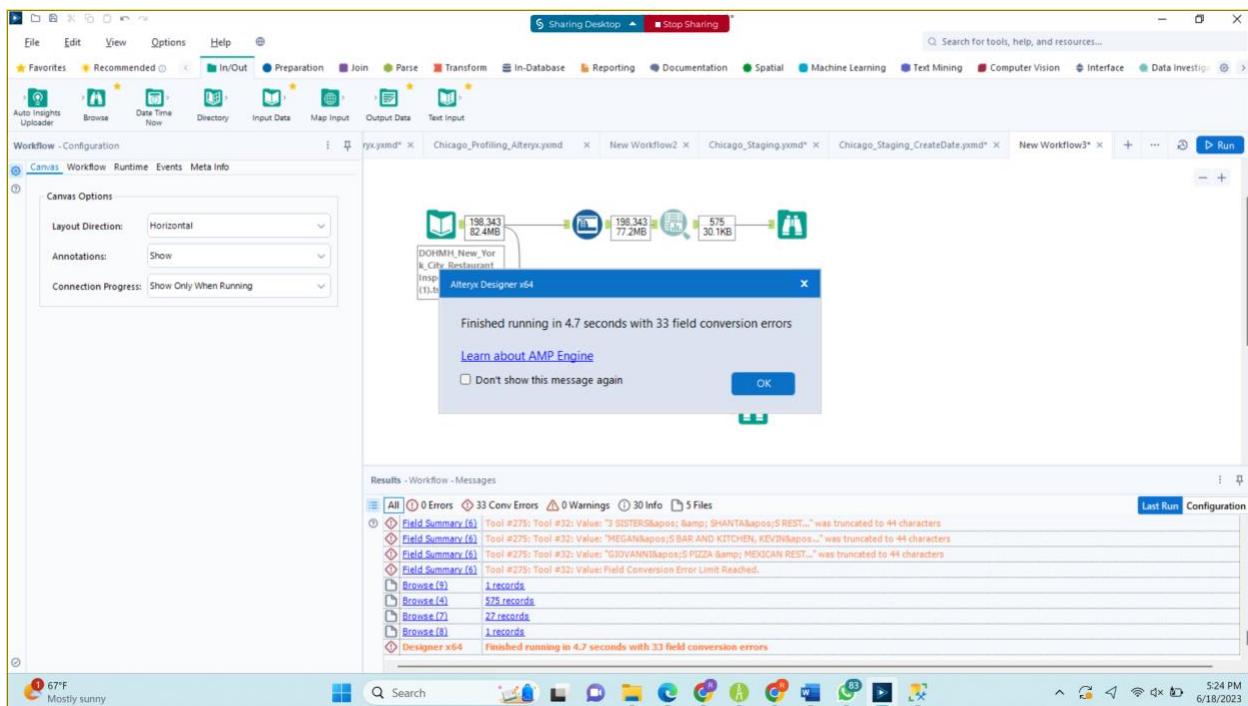
Below are steps how I started my project with Data reading, data cleaning, Modelling and visualization.

Step1:

Alteryx Profiling



Alteryx Profiling runtime



Step2: Performing Data Cleaning by changing the date to correct format

Alteryx Staging

Alteryx Staging runtime

Step3: Connect the Data to SQL for querying and checking data quality

Connecting Alteryx to SQL Server

SQLQuery5.sql - RA\JVIS_STUDIO\Newyork (RA\JVIS_STUDIO\ravji (59)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q) X

Object Explorer

SQLQuery5.sql - RA\JVIS_STUDIO\ravji (59)) X SQLQuery4.sql - RA\JVIS_STUDIO\ravji (71)) X SQLQuery1.sql - RA\JVIS_STUDIO\ravji (60)) X

Results Messages

GRADE	GRADE_DATE	RECORD_DATE	INSPECTION_TYPE	Latitude	Longitude	Community Board	BORO	BUILDING	STREET	ZIPCODE	PHONE	CUISINE_DESCRIPTION	INSPECTION_DATE	ACTION	VIOLATION_CODE
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Manhattan	281	WEST BROADWAY	10113	2129669883	Italian	2023-01-01	Violations were cited in the following area(s):	0A1
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Brooklyn	10420	FLATLANDS AVENUE	11236	7182570303	Caribbean	2023-01-01	Violations were cited in the following area(s):	0B1
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	10998	LIBERTY AVE	11419	3475617540	Caribbean	2023-01-01	Violations were cited in the following area(s):	0C1
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Brooklyn	4118	5 AVENUE	11232	3479873681	Mexican	2023-01-01	Establishment re-opened by DOHMH	10F
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	3722	73RD ST	11372	7187346000	Bangladesh	2023-01-01	Violations were cited in the following area(s):	0D4
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Brooklyn	4801	5 AVENUE	11220	7190918562	Frozen Desserts	2023-01-01	Violations were cited in the following area(s):	10F
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Manhattan	184	DUANE STREET	10013	7159768781	American	2023-01-01	Violations were cited in the following area(s):	0E0
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	12210	GUY R BREWER BLVD	11434	7187121200	Chicken	2023-01-01	Violations were cited in the following area(s):	0E1
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	4313	BROADWAY	11103	6316639636	Latin American	2023-01-01	Violations were cited in the following area(s):	0E6
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	11356	JFK INTL AIRPORT 58H	11430	7187512890	American	2023-01-01	Violations were cited in the following area(s):	0E8
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	16255	DEPOT RD	11358	9177675980	NULL	2023-01-01	Violations were cited in the following area(s):	0E9
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Brooklyn	1140	PIPERA AVENUE	11203	7189528400	NULL	2023-01-01	Violations were cited in the following area(s):	0F1
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Manhattan	95	7TH AVENUE	10071	7192051027	NULL	2023-01-01	Violations were cited in the following area(s):	0F1
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Manhattan	10038	CATHERINE STREET	10038	7122688919	Chinese	2023-01-01	Violations were cited in the following area(s):	0F2
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Bronx	228	WEST 231 STREET	10463	7154225333	American	2023-01-01	Violations were cited in the following area(s):	0F4
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	2553	STEVENWY ST	11103	7154853030	Pizza	2023-01-01	Violations were cited in the following area(s):	0G2
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Bronx	5225	BROADWAY	10483	6464914042	Chicken	2023-01-01	Violations were cited in the following area(s):	0G4
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	2007	127 STREET	11356	7188863722	Asian/African Fusion	2023-01-01	Violations were cited in the following area(s):	0H8
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Manhattan	150	WATER STREET	10006	2129521890	American	2023-01-01	Violations were cited in the following area(s):	0H9
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	2140	UTOPIA PKWY	11357	7183521201	Chinese	2023-01-01	Violations were cited in the following area(s):	0I0
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	1439	COLLEGE POINT BLVD	11356	7183584232	Juice Smoothies, Fru.	2023-01-01	Violations were cited in the following area(s):	0I1
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Brooklyn	8706	5 AVENUE	11209	719217171	Chinese	2023-01-01	Violations were cited in the following area(s):	0I6
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Brooklyn	22308	CHURCH AVENUE	11226	7328881356	NULL	2023-01-01	Violations were cited in the following area(s):	0I9
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	8237	164TH ST	11432	7182805941	NULL	2023-01-01	Violations were cited in the following area(s):	0J1
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Queens	4405	30TH AVE	11103	3474831201	NULL	2023-01-01	Violations were cited in the following area(s):	0J2
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Manhattan	678	6 AVENUE	10010	2120625121	Mediterranean	2023-01-01	Violations were cited in the following area(s):	0J8
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Manhattan	89	WASHINGTON STREET	10006	2126869888	Korean	2023-01-01	Violations were cited in the following area(s):	0J9
GR	2023-01-01	2023-01-01	Initial Inspection	40.7128	-74.0060	100-00000000	Brooklyn	850	3 AVENUE	11232	3477681903	Pizza	2023-01-01	Violations were cited in the following area(s):	0K8

Query executed successfully.

RA\JVIS_STUDIO (16.0 RTM) | RA\JVIS_STUDIO\ravji (59) | Newyork | 00:00:04 | 198,343 rows

Ready 67°F Mostly cloudy

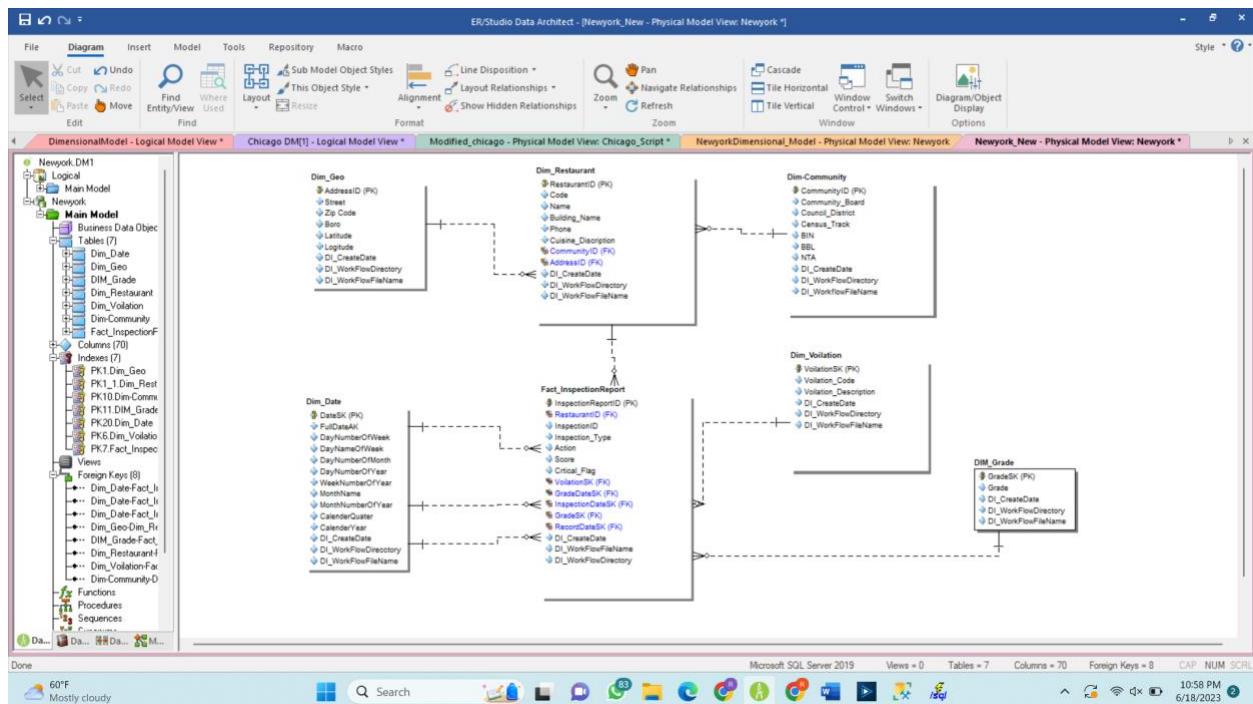
Search

Ln 34 Col 33 Ch 33 INS

6:32 PM 6/18/2023

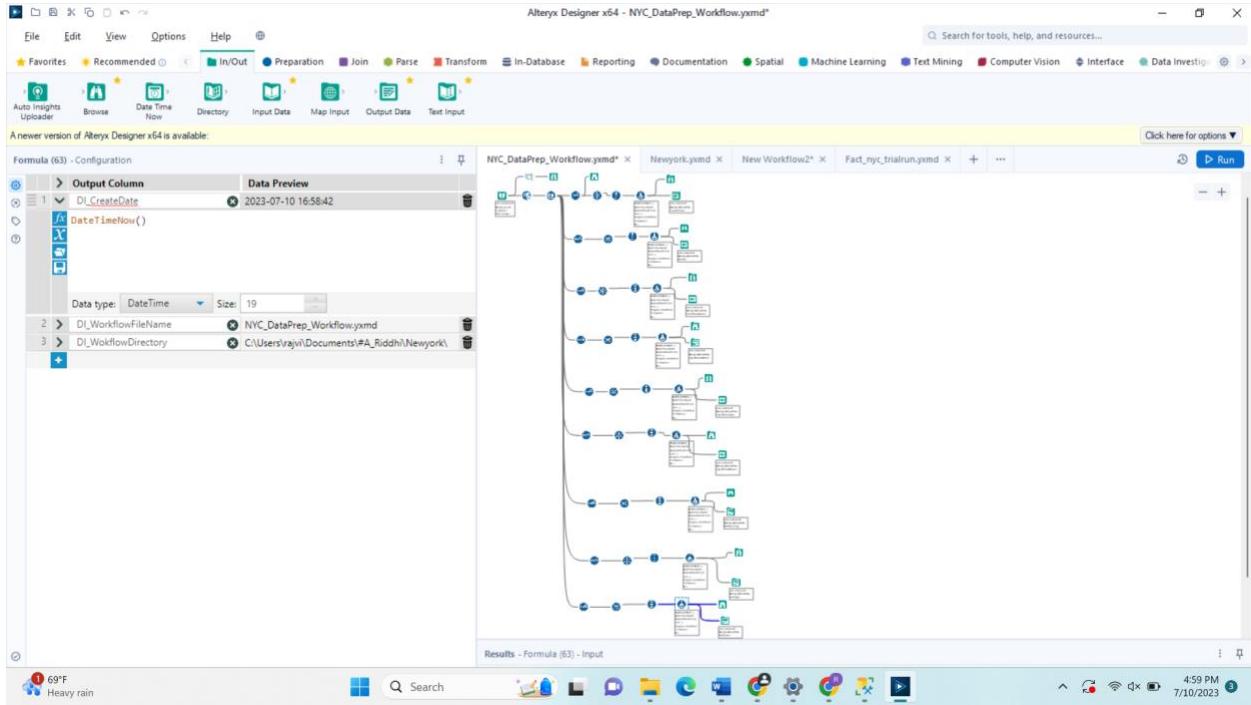
Step 4: Created Model for the Project and understanding the flow of the Project

Dimensional Model

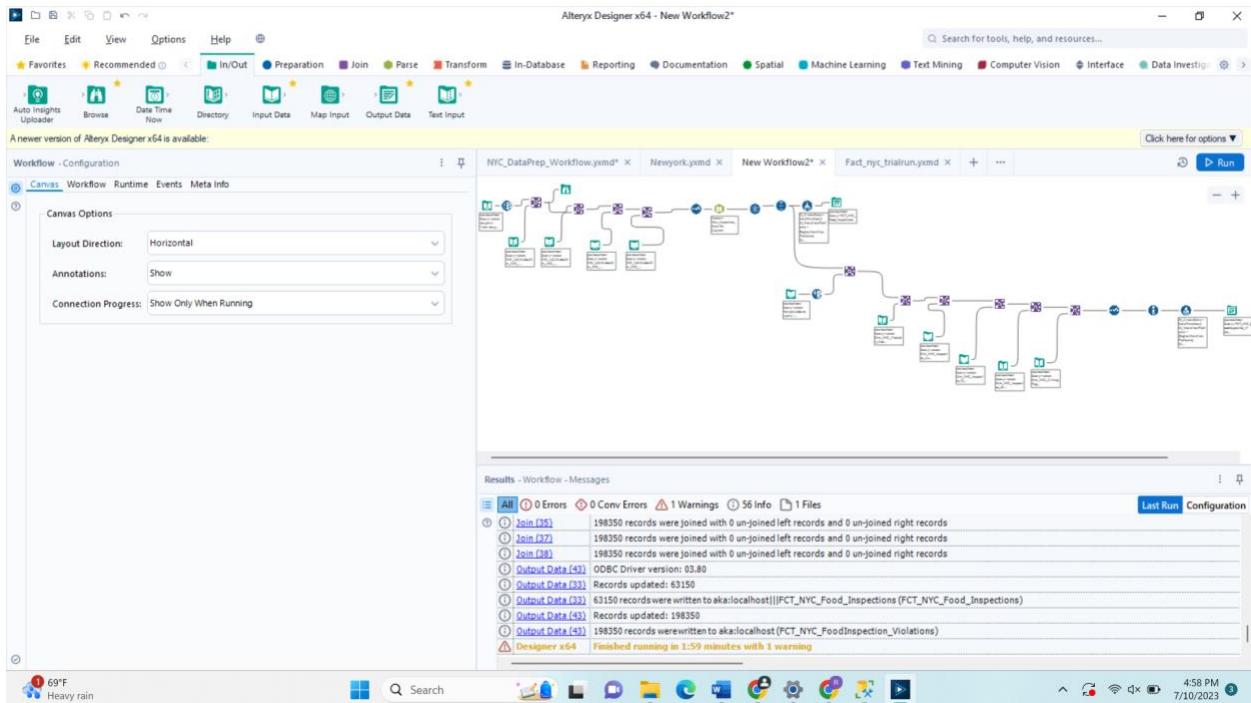


Step 5: Performing ETL pipeline by loading the data into Dimensional Tables according to the model

Loading all the data into tables.



Step 6: Joining all the Dimensional tables to the fact tables



Step 7: Quiring in SQL and Checking the number of count of rows which came 198343 which is approximately same as the dataset.

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface with several windows and toolbars.

File Explorer: Shows the file structure of the database "Newyork".

Object Explorer: Shows the schema of the database, including Synonyms, Programmability, Service Broker, Storage, Security, and tables like CHICAGO.NEW, Chicago.Stage, and NEWYORK.

SQL Query Windows:

- Query 1 (SQLQuery21.sql):

```
[INVESTIGATION_TYPE]
,[Latitude]
,[Longitude]
,[Community Board]
,[Council District]
,[Census Tract]
,[BIN]
,[BBL]
,[NTA]
,[Location Point1]
,[DI_WorkFlowFileName]
,[New_Inspection_Date]
,[New_Grade_Date]
,[New_Record_Date]
,[DI_Created_Date]
FROM [Newyork].[dbo].[newyork]
```
- Query 2 (SQLQuery20.sql):

```
CAMS DBA BORO BUILDING STREET ZIPCODE PHONE CUISINE DESCRIPTION INSPECTION DATE ACTION VIOLATION CODE
1 50075559 DUMBO HOUSE Brooklyn 55 WATER STREET 11201 6462152136 American 05/10/2022 Violations were cited in the following area(s). 06D
2 50113065 SABROSITO RESTAURANT & BAR Bronx 200 BAYCHESTER AVENUE 10475 7183320157 Spanish 04/12/2023 Violations were cited in the following area(s). 06F
3 4086762 AQUE Manhattan 140 7 AVENUE SOUTH 10014 2129892100 Mexican 03/30/2023 Violations were cited in the following area(s). 10F
4 50075559 JALISCO TACO'S Queens 474 93RD STREET 11375 92985133 Chinese 12/09/2019 Violations were cited in the following area(s). 10F
5 61215462 JALISCO TACO'S Bronx 214 ST ANNS AVENUE 10484 7183320157 Mexican 03/20/2023 Violations were cited in the following area(s). 10F
6 50004613 AMARINI CAFE Brooklyn 617 MANHATTAN AVENUE 11222 7183492783 Thai 03/20/2023 Violations were cited in the following area(s). 10F
7 30075545 AMARINI PARK BAKE SHOP Bronx 1007 MARYTIS PARK AVENUE 11202 7188024668 Bakery/Products/Desserts 02/03/2023 Establishment re-opened by DOHMH 02D
8 50106190 BK PIZZA Bronx 300 WYCKOFF AVENUE 11237 7184180307 Pizza 10/06/2022 Violations were cited in the following area(s). 10F
9 50130700 BELLA NONNA Bronx 123 WESTCHESTER SQ 10461 7196532007 NIUL 01/01/1900 NULL
10 50123375 NULL Manhattan 157 PRINCE STREET 10012 2027160810 NIUL 01/01/1900 NULL
11 50123741 NULL Manhattan 298 5 AVENUE 10001 9175103862 NIUL 01/01/1900 NULL
12 50128800 ANA'S CAFE Manhattan 38 WEST 38 STREET 10018 6463603109 American 11/17/2020 Violations were cited in the following area(s). 06C
13 50078733 McDONALD'S Brooklyn 904 MANHATTAN AVENUE 11222 3477284265 Hamburgers 04/20/2023 Establishment Closed by DOHMH; Violations were ... 05A
14 41665851 FRATELLI RESTAURANT Bronx 2507 EASTCHESTER ROAD 10469 7185472489 Italian 09/13/2022 Violations were cited in the following area(s). 06D
15 40932664 MIKE'S PLACE Staten Island 4677 HYLAN BOULEVARD 10312 7189849479 American 03/09/2023 Violations were cited in the following area(s). 10F
16 50075559 PI APPAREL Staten Island 4677 HYLAN BOULEVARD 10312 7189849479 American 03/09/2023 Violations were cited in the following area(s). 10F
```
- Query 3 (SQLQuery19.sql):

```
LN 31 Col 24 Ch 24 INS
```
- Query 4 (SQLQuery18.sql):

```
RJ/MS_STUDIO (16.0 RTM) RJ/MS_STUDIO(rjvi (89)) Newyork 00:00:11 198,343 rows
```

Status Bar: Shows "Ready", "69°F Heavy rain", and system icons.

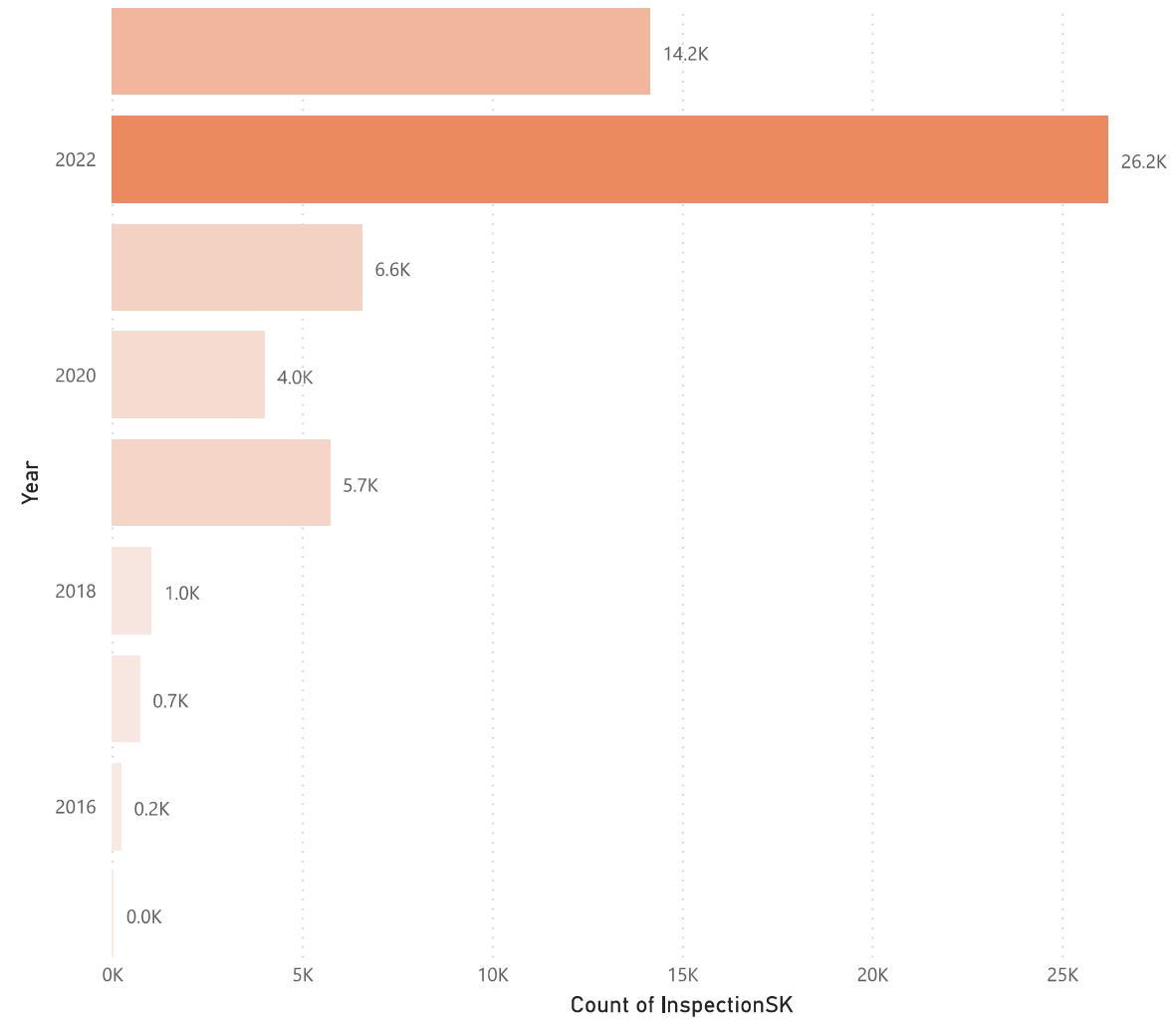
Year	Count of InspectionSK
2023	14159
January	2408
February	2368
March	2959
April	2798
May	2887
June	739
2022	26221
January	2010
February	1939
March	2700
April	2372
May	2432
June	1995
July	2005
August	2313
September	2037
October	2224
November	2170
December	2024
2021	6583
2020	4018
Total	63150

63.15K

Count of InspectionSK

Count of InspectionSK by Year

Count of InspectionSK 0.01K 26.22K

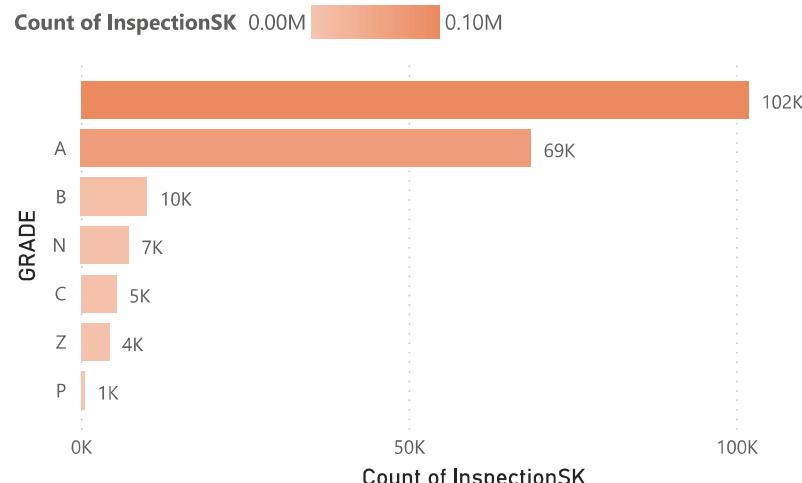




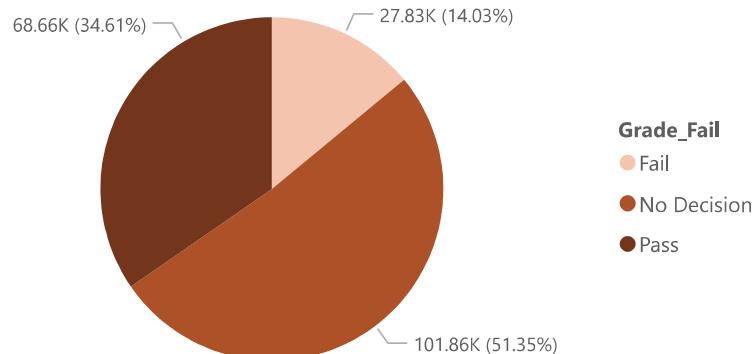
ViolationCodeSK	VIOLATION_DESCRIPTION
1	202 "Choking first aid" poster not posted. "Alcohol and Pregnancy" v posted. Resuscitation equipment: exhaled air resuscitation mask (pediatric), latex gloves, sign not posted.
203	"Choking first aid" poster not posted. "Alcohol and Pregnancy" v posted. Resuscitation equipment: exhaled air resuscitation mask (pediatric), latex gloves, sign not posted.

InspectionSK	SCORE	CRITICAL_FLAG	Count of ViolationCodeSK
1	0	Not Applicable	1
2	0	Not Applicable	1
3	0	Not Applicable	1
4	0	Not Applicable	1
5	0	Not Applicable	1
6	0	Not Applicable	1
7	0	Not Applicable	1
8	0	Not Applicable	1
9	0	Not Applicable	1
10	0	Not Applicable	1
11	0	Not Applicable	1
Total			198350

Count of InspectionSK by GRADE



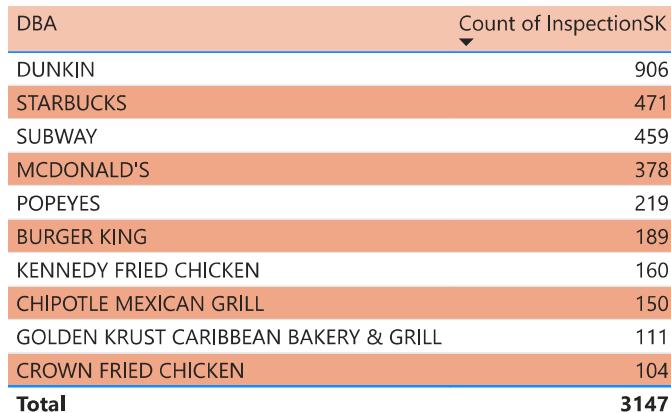
Count of InspectionSK by Grade_Fail



2/18/2021 6/12/2023

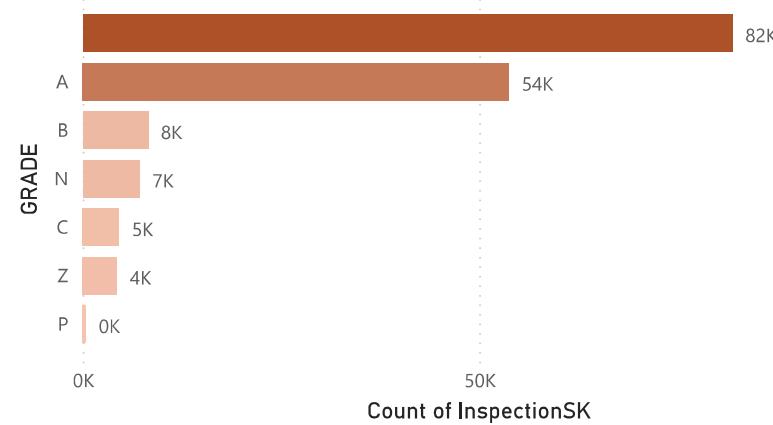
BORO

Select all	Brooklyn	Queens
Bronx	Manhattan	Staten Island

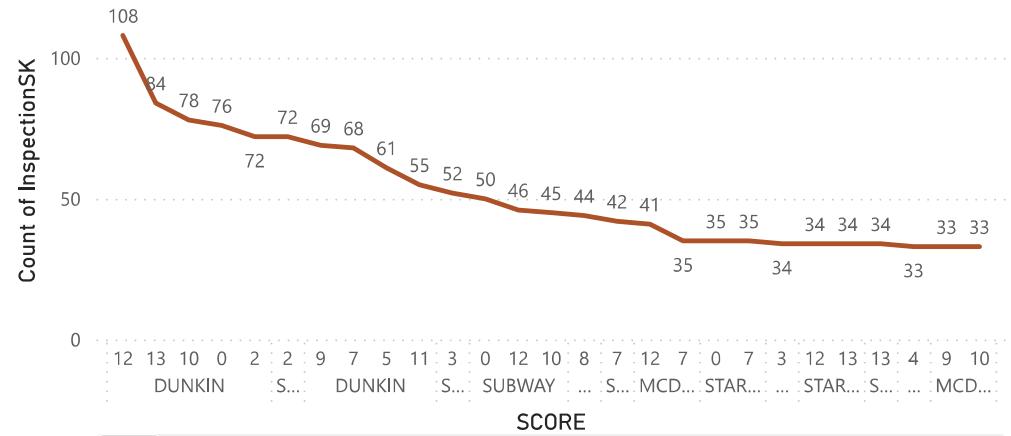


Count of InspectionSK by GRADE

Count of InspectionSK 0.41K 81.93K



Count of InspectionSK by DBA and SCORE

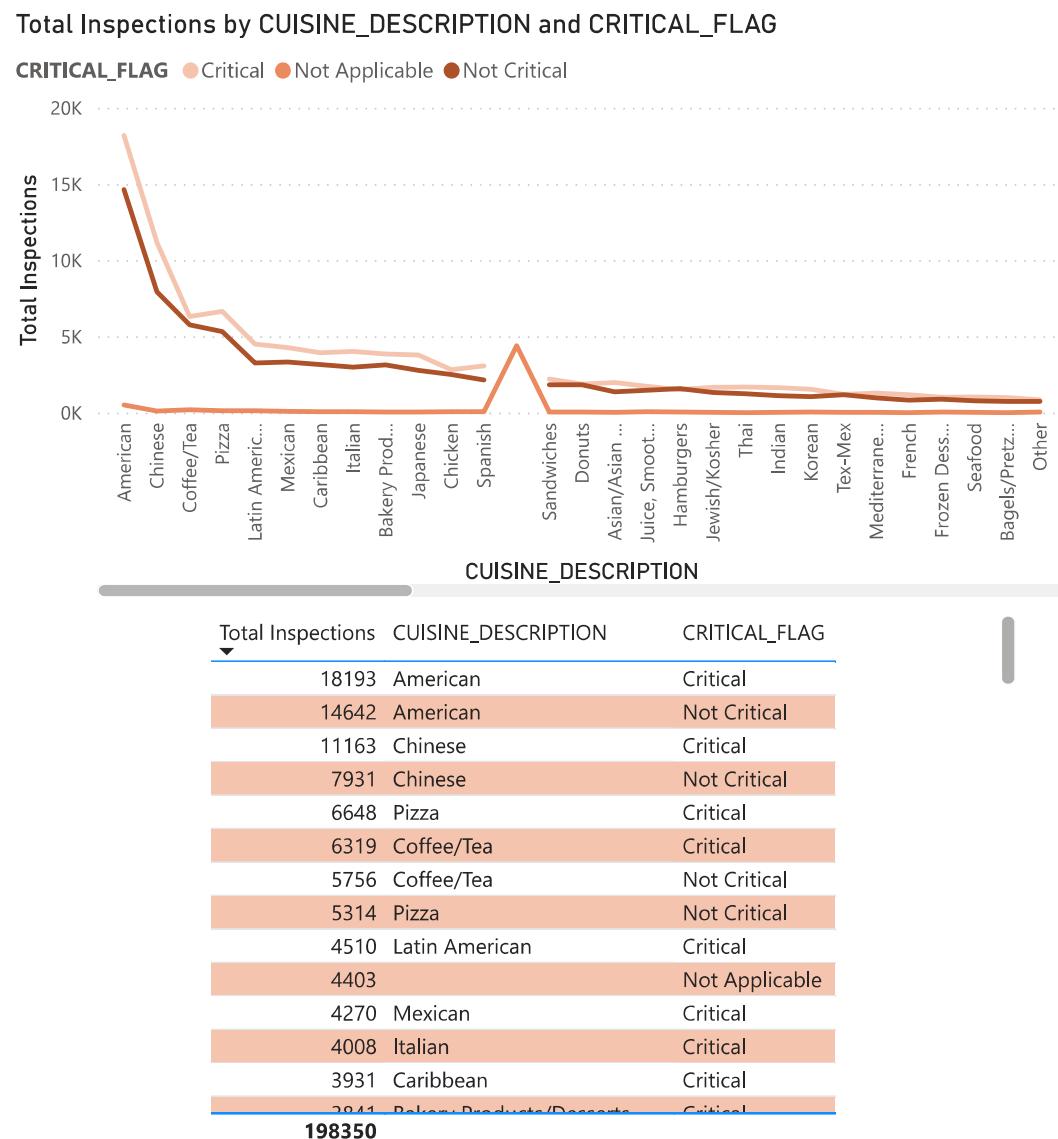


CRITICAL_FLAG	
Select all	Not Applicable
Critical	Not Critical

✓

Cuisine Description			
Select all	Asian/Asian Fusion	Basque	Chicken
	Australian	Bottled Beverages	Chilean
Afghan	Bagels/Pretzels	Brazilian	Chinese
African	Bakery Products/Desserts	Cajun	Chinese/Cuban
American	Bangladeshi	Californian	Chinese/Japanese
Armenian	Barbecue	Caribbean	Coffee/Tea

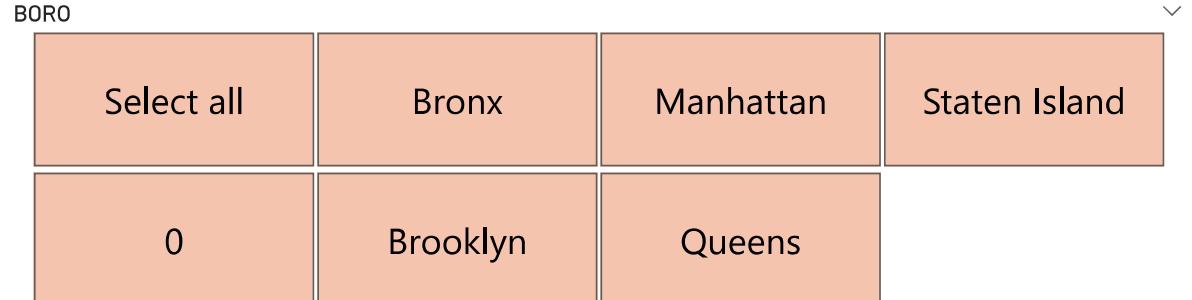
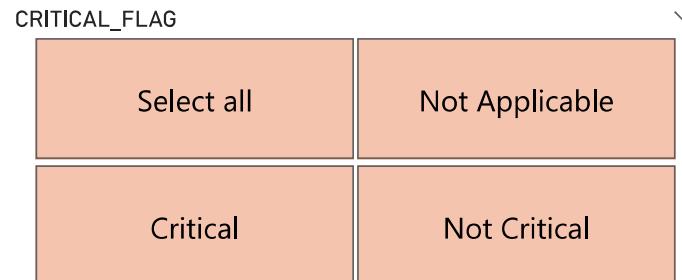
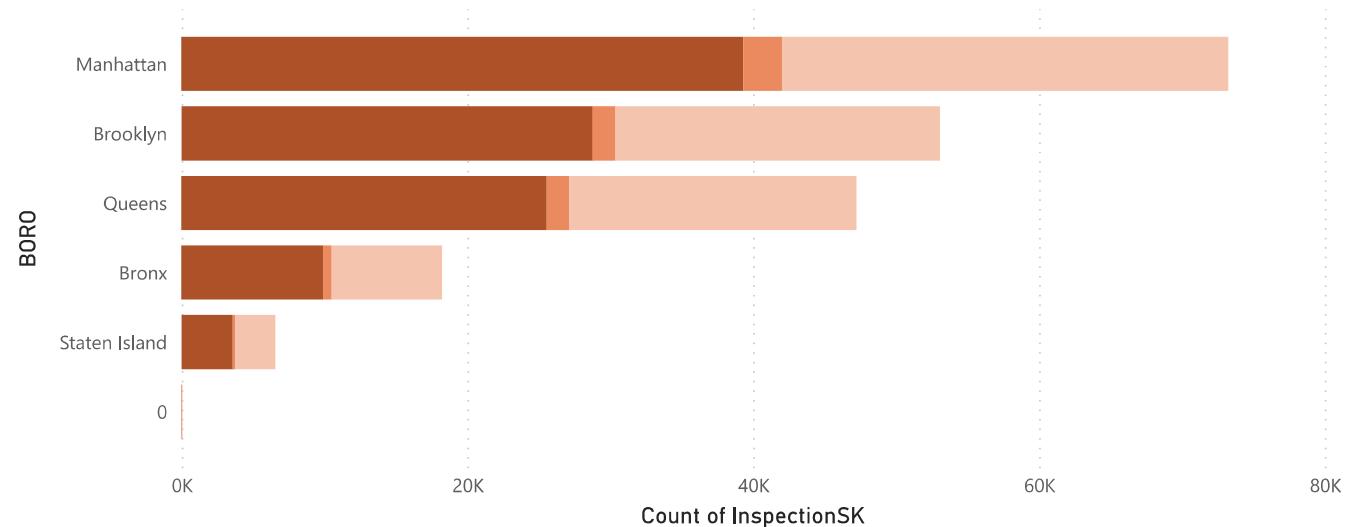
1



BORO	Count of InspectionSK	CRITICAL_FLAG
Manhattan	39295	Critical
Manhattan	31226	Not Critical
Brooklyn	28751	Critical
Queens	25566	Critical
Brooklyn	22689	Not Critical
Queens	20096	Not Critical
Bronx	9899	Critical
Bronx	7730	Not Critical
Staten Island	3563	Critical
Staten Island	2821	Not Critical
Manhattan	2721	Not Applicable
Brooklyn	1605	Not Applicable
Queens	1557	Not Applicable
Bronx	601	Not Applicable
Staten Island	166	Not Applicable
0	42	Not Applicable
0	13	Critical
0	9	Not Critical
Total	198350	

Count of InspectionSK by BORO and CRITICAL_FLAG

CRITICAL_FLAG ● Critical ● Not Applicable ● Not Critical



InspectionSK and BORO

BORO ● 0 ● Bronx

