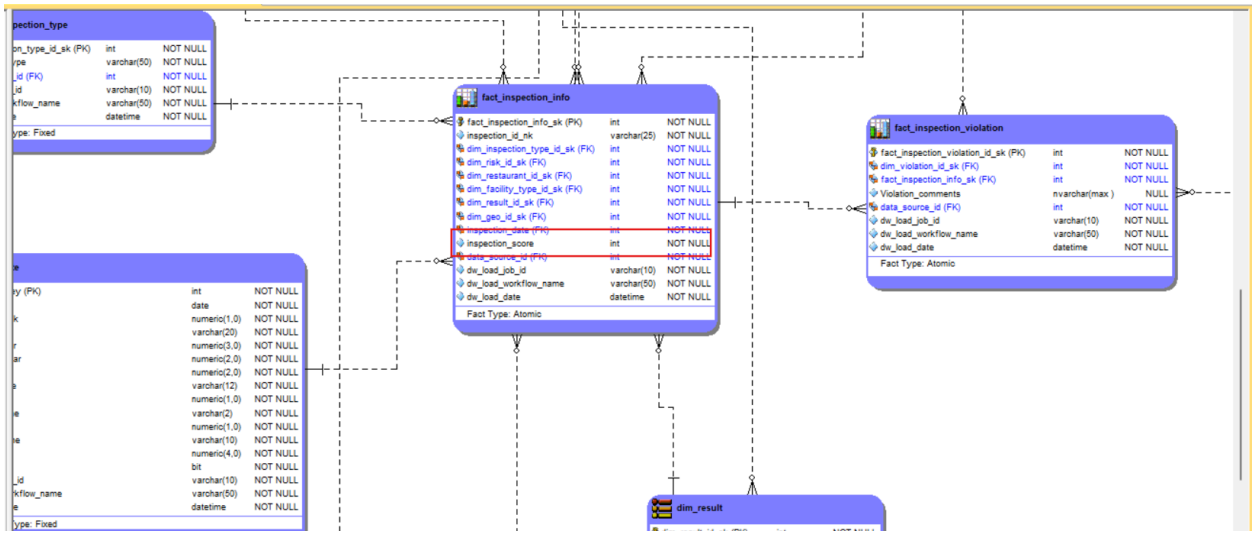
DAMG 7370 - Business License Processing Part 2

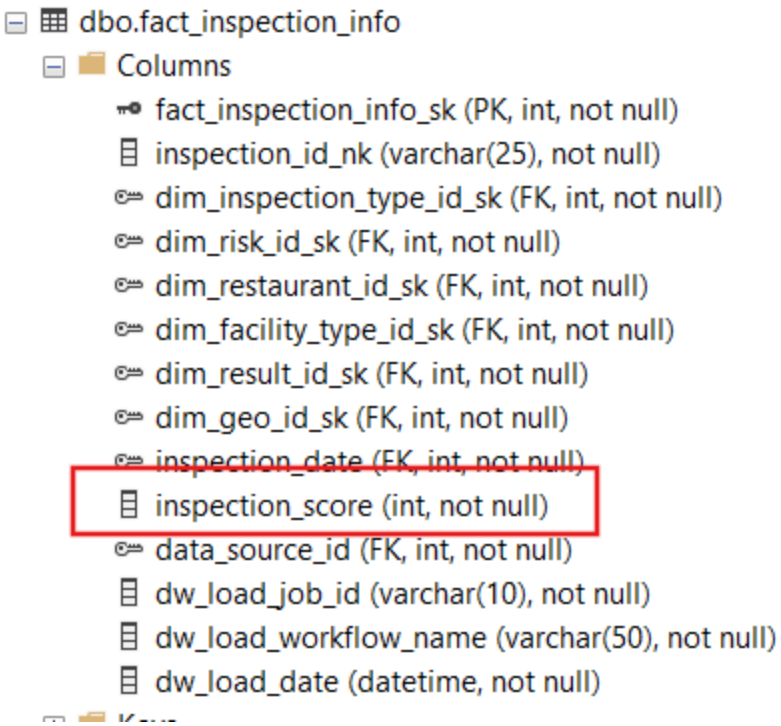
Name: Ram Kumar Ramasamy Pandiaraj **NEU ID**: 002825732

Updated Data Model:

To the existing model only INSPECTION SCORE was added to the fact table:



Forward Engineered and recreated the scripts in SSMS:
Updated fact table:



FACT LOAD:

CHICAGO:

Have incorporated the logic in fact load for chicago:

IN TABLE:

```
SELECT * FROM dbo.fact_inspection_info;
```

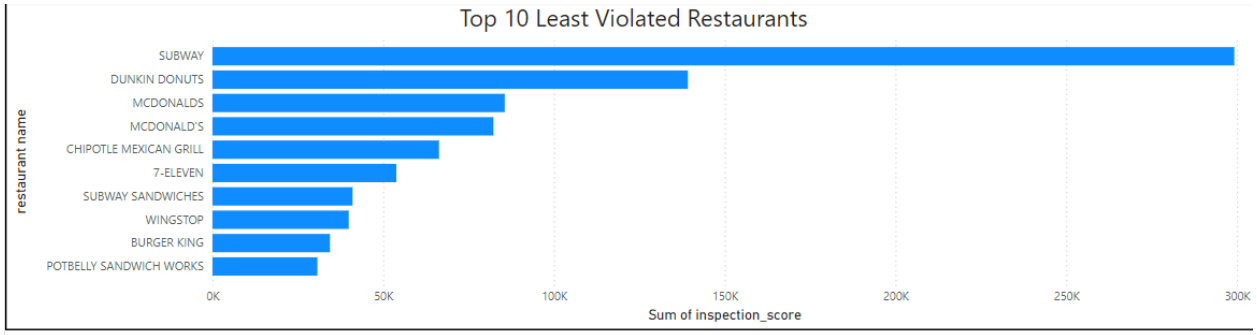
Results | Messages

dim_risk_id_sk	dim_restaurant_id_sk	dim_facility_type_id_sk	dim_result_id_sk	dim_geo_id_sk	inspection_date	inspection_score	data_source_id	dw_load_job_id	dw_load_workflow_name
195606	187481	100117	195601	126499	20240410	44	1	Psh3zq	fact_inspection_info_load_ch
195606	166926	100009	195599	126030	20240426	96	1	Psh3zq	fact_inspection_info_load_ch
195606	168660	100347	195599	131194	20240405	94	1	Psh3zq	fact_inspection_info_load_ch
195606	142472	100009	195604	134963	20240405	0	1	Psh3zq	fact_inspection_info_load_ch
195606	166891	100009	195601	137231	20240408	42	1	Psh3zq	fact_inspection_info_load_ch
195606	147204	100009	195599	138707	20240408	96	1	Psh3zq	fact_inspection_info_load_ch
195606	194652	100009	195604	135138	20240312	10	1	Psh3zq	fact_inspection_info_load_ch
195606	155276	100009	195599	120793	20240325	96	1	Psh3zq	fact_inspection_info_load_ch
195606	186095	100009	195599	134947	20240410	94	1	Psh3zq	fact_inspection_info_load_ch
195606	188083	100009	195601	122967	20240521	46	1	Psh3zq	fact_inspection_info_load_ch
195606	146581	100231	195599	123843	20240509	100	1	Psh3zq	fact_inspection_info_load_ch
195606	144161	100009	195599	124155	20240416	98	1	Psh3zq	fact_inspection_info_load_ch
195606	179065	100016	195599	126649	20240506	94	1	Psh3zq	fact_inspection_info_load_ch
195606	139969	100231	195604	135341	20240521	8	1	Psh3zq	fact_inspection_info_load_ch
195606	185141	100009	195599	122817	20240522	98	1	Psh3zq	fact_inspection_info_load_ch

VISUALS:

Q1)

POWER BI:



Top 10 Most Violated Restaurants

Restaurant name	Sum - Inspection Score	Number of Violations Committed
GRANNY'S KITCHEN	0	26
HARVEST FOOD	0	23
MINI SUPER DANY	0	23
SUPREME SUPERMARKET	0	23
LA ROCCIA	0	22
BIRRIA OCOTLAN MEZCAL	0	20
CHINKAY, INC.	0	20
LOYOLA'S ASIAN CUISINE AND LOUNGE	0	20
VIP FIT CLUB	0	20
CHICAGO PIZZA FIESTA	0	19
Total	**0**	**431**

TABLEAU:

Columns
Inspection Score
Rows
Restaurant Name ..
The top 10 Least violated restaurants
Restaurant Name Nk
SUBWAY
DUNKIN DONUTS
MCDONALDS
MCDONALD'S
CHIPOTLE MEXICAN GRILL
7-ELEVEN
SUBWAY SANDWICHES
WINGSTOP
BURGER KING
POTBELLY SANDWICH WORKS
0K 20K 40K 60K 80K 100K 120K 140K 160K 180K 200K 220K 240K 260K 280K 300K
Inspection Score

Columns
Rows
The top 10 most violated restaurants
JUANITA PRODUCE AND RESTAURANT
HARVEST FOOD
CHINKAY, INC.
GRANNY'S KITCHEN
DIEGO'S TACOS
BIRRIA OCOTLAN MEZCAL
CHICAGO PIZZA FIESTA
HAWKEYE'S RIBS
CHILE VERDE
CHICAGO RESTAURANT BUSINESS INC

Q2)

POWER BI:

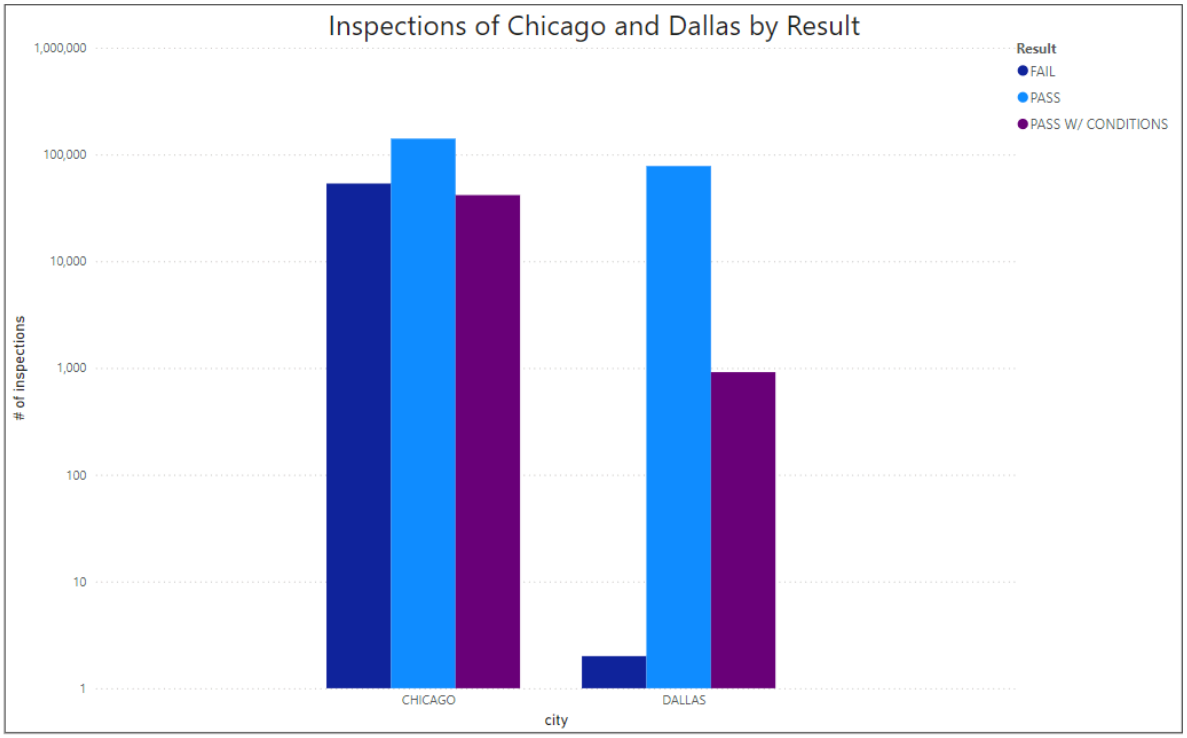
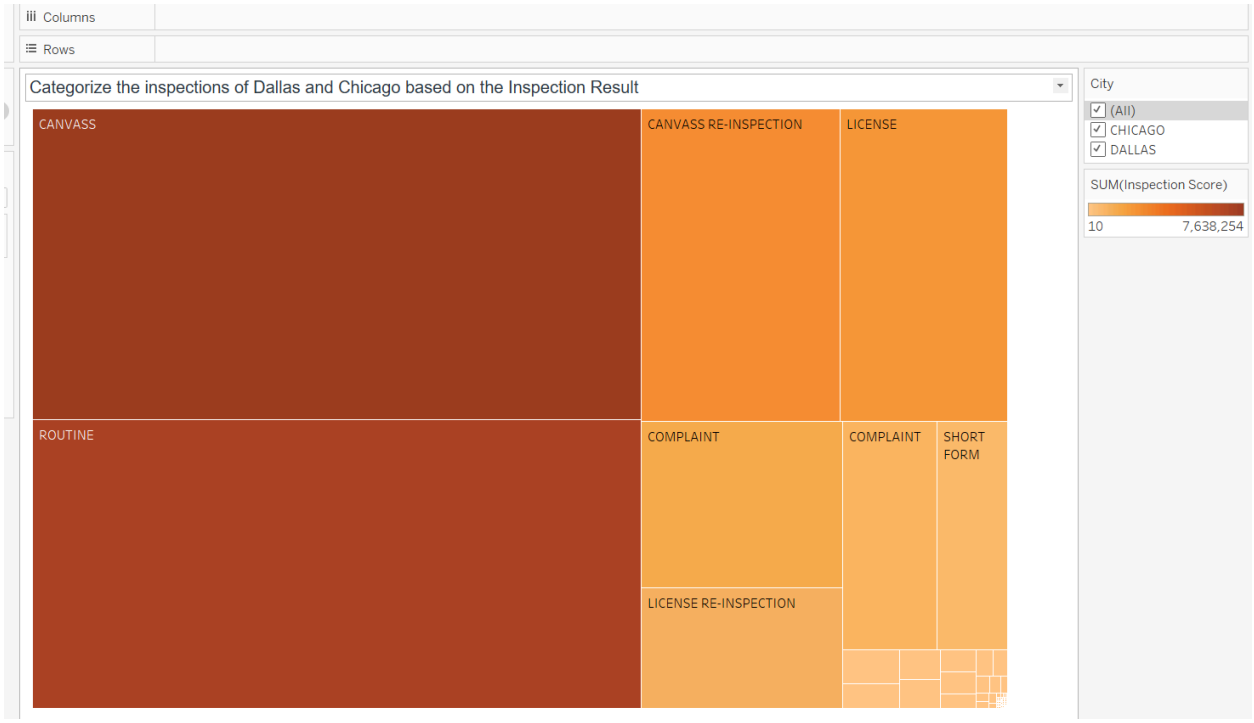
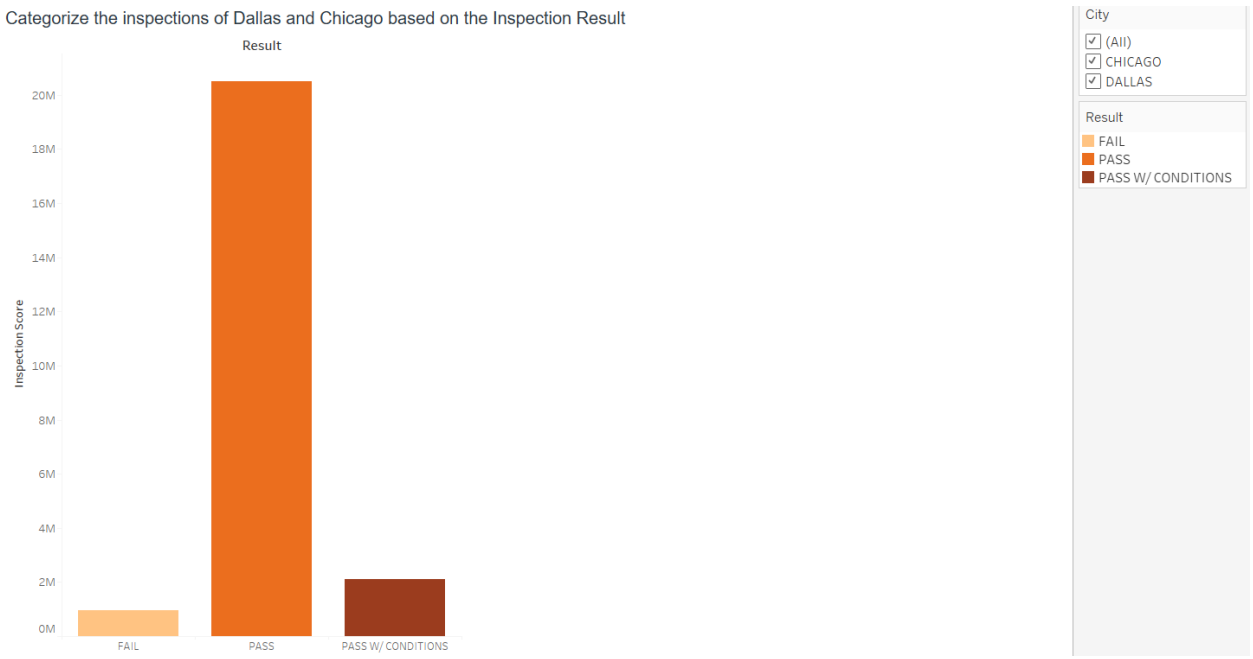

Inspections of Chicago and Dallas by Result
1,000,000
100,000
10,000
1,000
100
10
1
# of inspections
CHICAGO
DALLAS
city
Result
FAIL
PASS
PASS W/ CONDITIONS

TABLEAU:


Columns
Rows
Categorize the inspections of Dallas and Chicago based on the Inspection Result
CANVASS
CANVASS RE-INSPECTION
LICENSE
ROUTINE
COMPLAINT
COMPLAINT
SHORT FORM
LICENSE RE-INSPECTION
City
(All)
CHICAGO
DALLAS
SUM(Inspection Score)
10
7,638,254



Q3) Distribution of Inspection Score:

Power BI:

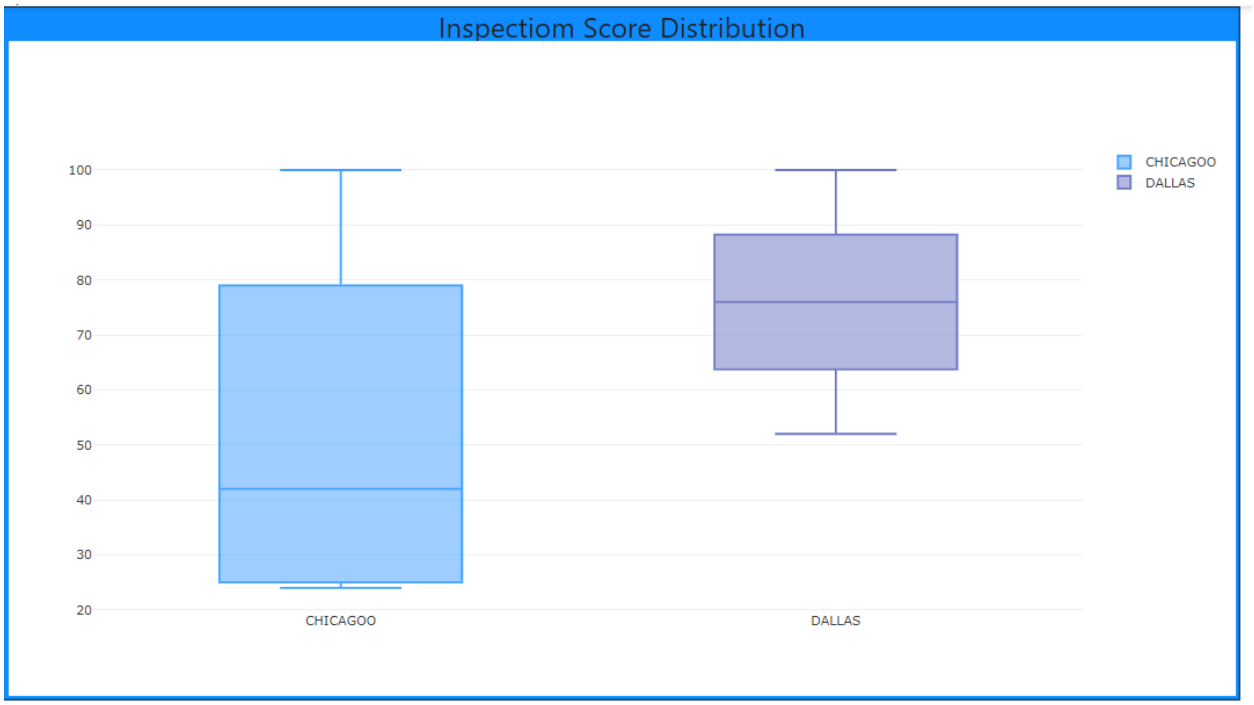
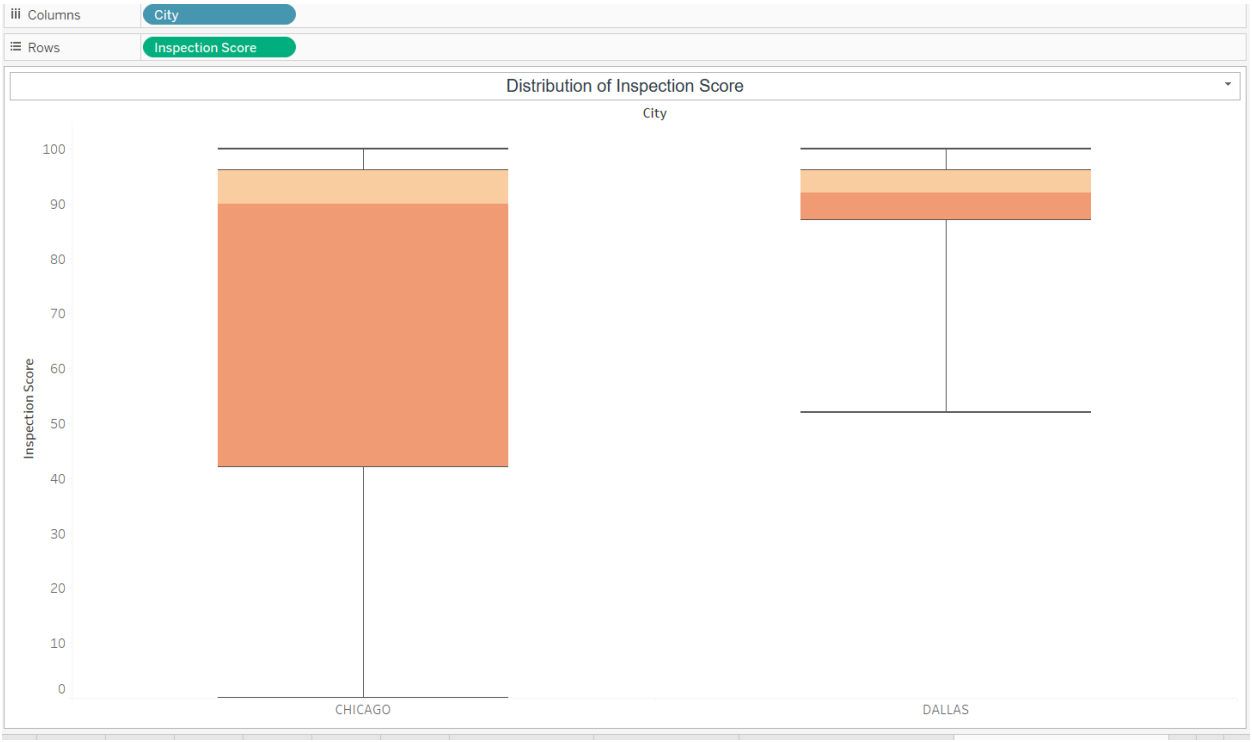


TABLEAU:


Columns
City
Rows
Inspection Score
Distribution of Inspection Score
City
Inspection Score
100
90
80
70
60
50
40
30
20
10
0
CHICAGO
DALLAS