

Chicago and Dallas Part 3

We are combining two datasets to generate one dimensional modelling to load the data and populate the database

- Chicago from [Chicago Food Inspection](#) & [Business Licenses](#)
- Dallas from [Dallas Restaurant Food Inspection](#)

Analyzed dimension tables from 2 data models and reduced to 8 dimensional tables namely Dim_Address, Dim_DBA, Dim_Result, Dim_Risk, Dim_InspectionType, Dim_FacilityType, Dim_License and 2 Fact Tables namely FCT_Inspections, FCT_Violations

Dimensions that are connected to FCT_Inspections:

- Dim_Restaurant connected to Dim_Licenses
- Dim_Address
- Dim_InspectionType
- Dim_Result
- Dim_Risk
- FCT_Inspections connected to FCT_Violations, which is connected to dimension, -----
Dim_Violations

Eliminated Dimensions:

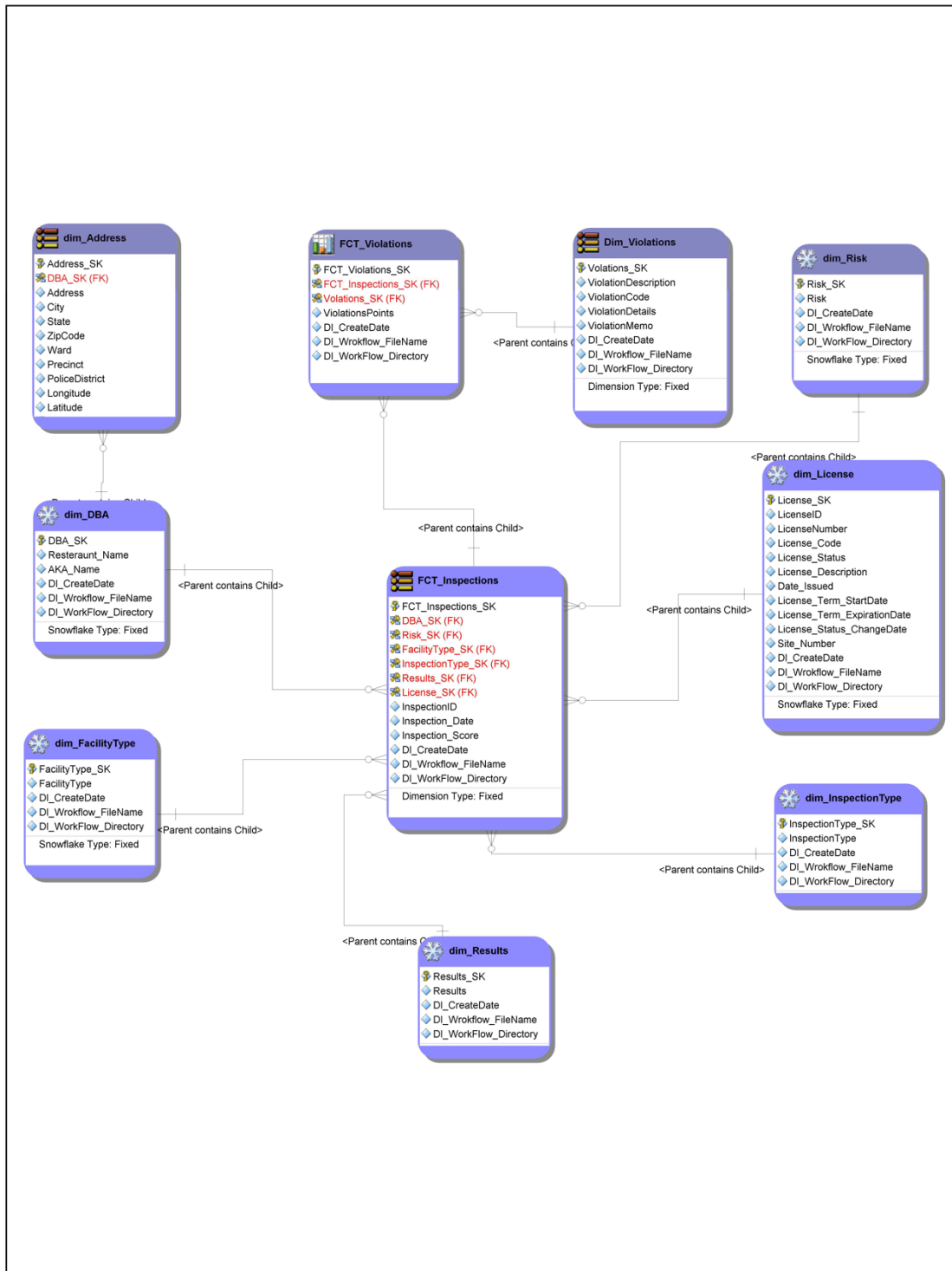
- Dim_BusinessLicences as separate dimensional table as it contains redundant information

Brief Explanation about the Dimensions:

- **Dim_DBA** gives us the information regarding the restaurant such as Restaurant Name, Address, Zipcode etc.
- **Dim_Licenses** gives us the information regarding the restaurant licence such as License Number, Licence ID, Licence Description etc.
- **Dim_Address** provides information about the location of the restaurants
- **Dim_InspectionType** helps you understand the types of inspections that were conducted, whether they were routine inspections or inspections because by complaints or follow-ups.
- **Dim_Result** which gives information if the Restaurant has passed or failed the inspection based on the inspection score
- **Dim_Risk** which gives information about the violations that were found during the inspections, and the severity of those violations.
- **Dim_Violation** which gives us the information of the violation such as Violation Code , Violation Description.

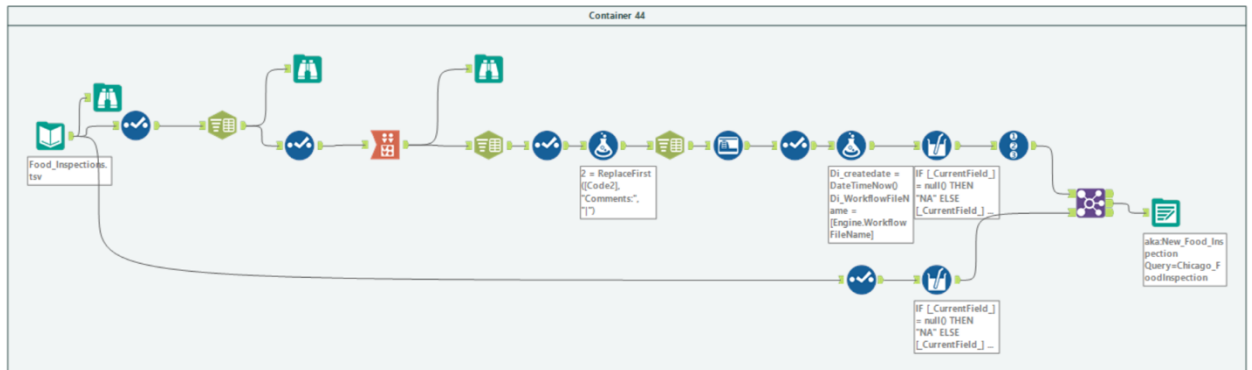
If there are any columns specific to a particular dataset and not other, the specific columns will be updated with NULL values

1] Dimensional Model:

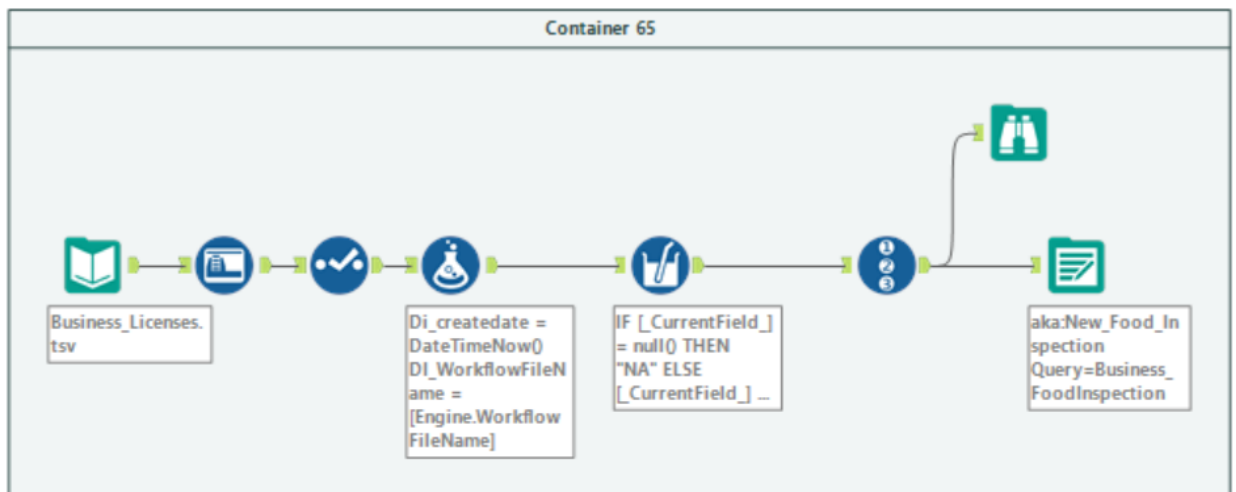


2] Data Profiling:

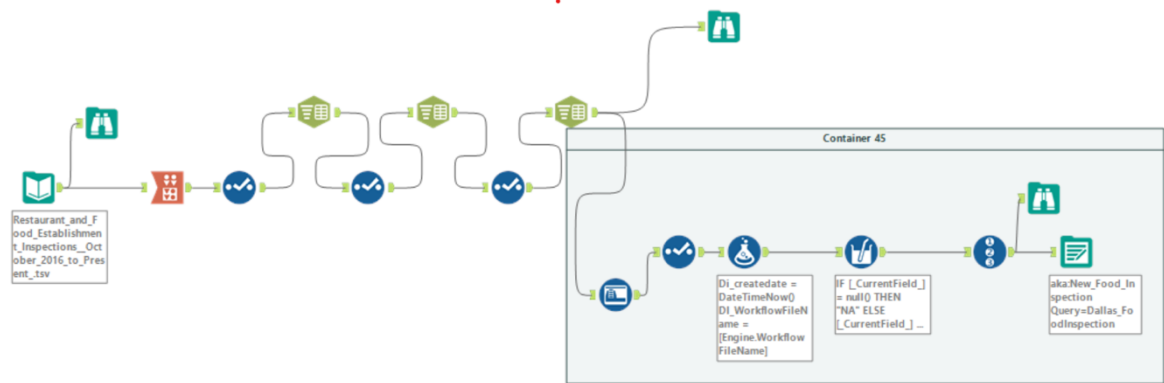
i. Chicago Food Inspections:



ii. Chicago Business Licenses:



iii. Dallas:



Time taken for data integration:

