

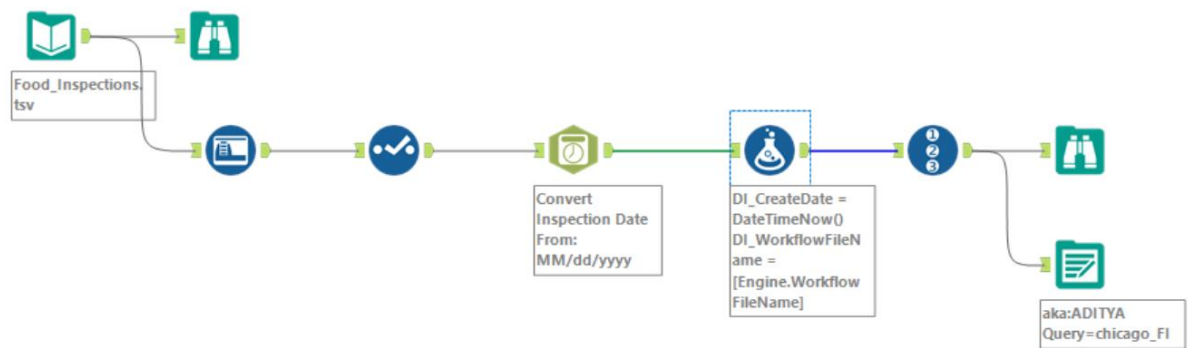
Chicago Food Inspection and Business Licenses

- By Team 3

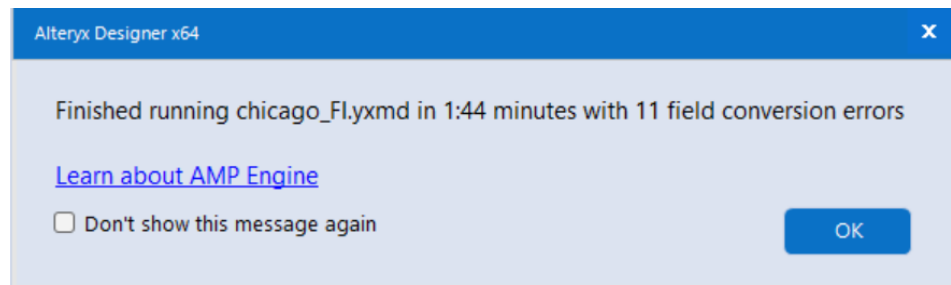
PART - 1

Food Inspection

1. Workflow for Staging Table



a.



b.

2. DDL Script for Stage Table

a. Table Creation

```

USE [Chicago_FI_Stage]
GO

SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[chicago_FI](
    [RecordID] [int] NULL,
    [Inspection ID] [int] NULL,
    [DBA Name] [varchar](79) NULL,
    [AKA Name] [varchar](79) NULL,
    [License #] [int] NULL,
    [Facility Type] [varchar](47) NULL,
    [Risk] [char](15) NULL,
    [Address] [varchar](51) NULL,
    [City] [varchar](20) NULL,
    [State] [char](2) NULL,
    [Zip] [int] NULL,
    [Inspection Date] [char](10) NULL,
    [Inspection Type] [varchar](41) NULL,
    [Results] [varchar](20) NULL,
    [Violations] [varchar](254) NULL,
    [Latitude] [char](18) NULL,
    [Longitude] [char](18) NULL,
    [Location] [char](40) NULL,
    [New Inspection Date] [date] NULL,
    [DI_CreateDate] [datetime] NULL,
    [DI_WorkflowFileName] [nvarchar](max) NULL
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO

```

i.

b. Workflow output in SQL Query

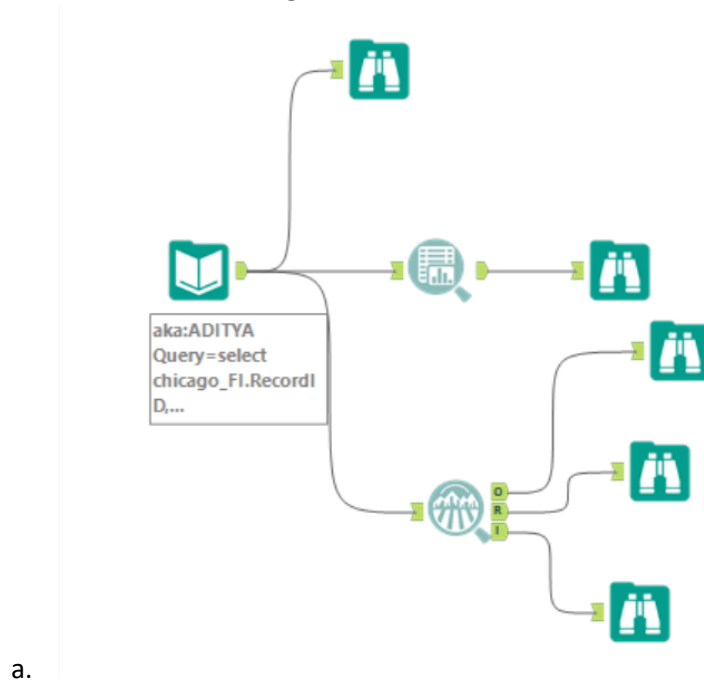
select * from chicago_FI

100%ResultsMessages

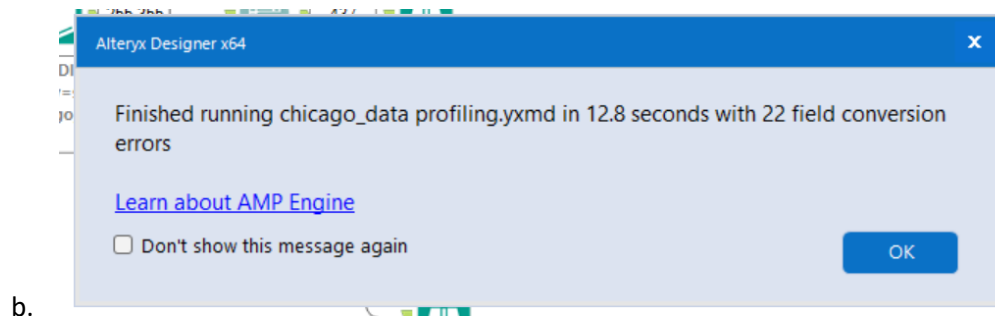
	RecordID	Inspection ID	DBA Name	AKA Name	License #	Facility Type	Risk	Address	City	State	Zip	Inspection Date	Inspection Type	Results	Violations	Latitude	Longitude	Location	New Inspection Date	DI_CreateDate	DI_WorkflowFileName	
1	2569847		Sauganash Elementary School	Sauganash Elementary School	25211	School	Risk 1 (High)	6040 N Kilpatrick (4700W) AVE	CHICAGO	IL	60646	01/13/20										
2	2569435		BODEGA BAY MART	BODEGA BAY MART	2863379	Grocery Store	Risk 2 (Medium)	2007 W NORTH AVE	CHICAGO	IL	60647	01/10/20										
3	2568838		OM BIENESTAR	NULL	2738322	Restaurant	Risk 2 (Medium)	3057 S AVERS AVE	CHICAGO	IL	60623	12/21/19										
4	2568561		LA JEREZANA	LA JEREZANA	27371	Grocery Store	Risk 1 (High)	3022 E 91ST ST	CHICAGO	IL	60617	12/15/19										
5	2568423		QDOBA	QDOBA	2631026	Restaurant	Risk 1 (High)	5700 S DREXEL AVE	CHICAGO	IL	60637	12/13/19										
6	2565153		TORCHIO	TORCHIO	2560659	Restaurant	Risk 1 (High)	738 N WELLS ST	CHICAGO	IL	60654	10/12/19										
7	2567972		SBARRO	SBARRO	2862176	Restaurant	Risk 1 (High)	500 W MADISON ST	CHICAGO	IL	60661	12/05/19										
8	2567789		EL POLLO REAL	EL POLLO REAL	2232132	Restaurant	Risk 1 (High)	3835 W 31ST ST	CHICAGO	IL	60623	11/30/19										
9	2567097		VEGAN NOW INC	VEGAN NOW	2447002	Restaurant	Risk 2 (Medium)	131 N CLINTON ST	CHICAGO	IL	60661	11/15/19										
10	2567065		PARK MANOR	PARK MANOR ELEMENTARY	24841	School	Risk 1 (High)	7037 S Rhodes (532E) AVE	CHICAGO	IL	60637	11/15/19										
11	2564974		HILTON OHARE	HILTON OHARE/ANDIAMO'S/CAFFE MERCATO	2647047	Restaurant	Risk 1 (High)	11601 W TOLUHY AVE	CHICAGO	IL	60666	10/06/19										
12	2564327		TORCHIO	TORCHIO	2560659	Restaurant	Risk 1 (High)	738 N WELLS ST	CHICAGO	IL	60654	09/26/19										
13	2564103		DELTA SKY CLUB	DELTA SKY CLUB T5	2640662	Restaurant	Risk 3 (Low)	11601 W TOLUHY AVE	CHICAGO	IL	60666	09/20/19										
14	2563781		BANO BANG	BANG BANG	2146563	Restaurant	Risk 1 (High)	2051 N CALIFORNIA AVE	CHICAGO	IL	60647	09/16/19										
15	2563787		CERES' TABLE	CERES' TABLE	2137239	Restaurant	Risk 1 (High)	3124 N BROADWAY	CHICAGO	IL	60657	09/15/19										
16	2562053		SUBWAY	SUBWAY	2663267	Restaurant	Risk 1 (High)	4351 W ARMITAGE AVE	CHICAGO	IL	60639	08/12/19										
17	2560591		FACEBOOK	FACEBOOK	2713271	Restaurant	Risk 1 (High)	151 N FRANKLIN ST	CHICAGO	IL	60606	07/12/19										
18	2560419		CHARTWELLS	MANSUETO HIGH SCHOOL	2540959	HIGH SCHOOL KITCHEN	Risk 1 (High)	2911 W W 47TH ST	CHICAGO	IL	60632	07/07/19										
19	2557095		WOW BAO	WOW BAO	1379974	Restaurant	Risk 1 (High)	835 N MICHIGAN AVE	CHICAGO	IL	60611	06/09/19										
20	2557044		PAN ARTESANAL	PAN ARTESANAL	2602146	Bakery	Risk 1 (High)	3724 W FULLERTON AVE	CHICAGO	IL	60647	06/09/19										
21	2556917		BISTRO	BISTRO	2846045	Restaurant	Risk 1 (High)	1400 S JEAN BAPTISTE POINTE DUSABLE LAKESHORE DR	CHICAGO	IL	60605	06/07/19										
22	2555982		SUBWAY	SUBWAY	1516668	Restaurant	Risk 1 (High)	66 E WASHINGTON ST	CHICAGO	IL	60602	05/18/19										
23	2555749		SOUTH COAST	SOUTH COAST SUSHI	1817424	Restaurant	Risk 1 (High)	1700 S MICHIGAN AVE	CHICAGO	IL	60616	05/13/19										
24	2555715		TAIPEI CAFE	TAIPEI CAFE	2845798	Restaurant	Risk 1 (High)	620 W BELMONT AVE	CHICAGO	IL	60657	05/12/19										
25	2555699		LA BORRA CAFE	LA BORRA CAFE	2845946	Restaurant	Risk 1 (High)	2800 N LINCOLN AVE	CHICAGO	IL	60657	05/12/19										
26	2555646		COURTYARD BY MARRIOTT	COURTYARD BY MARRIOTT/STARBUCKS	33501	Restaurant	Risk 3 (Low)	12 E HUBBARD ST	CHICAGO	IL	60611	05/12/19										
27	2555557		ST EDWARD SCHOOL	ST EDWARD SCHOOL	1878502	School	Risk 1 (High)	4343 W SUNNYSIDE	CHICAGO	IL	60630	05/11/19										
28	2555547		FESTIBOWLS	FESTIBOWLS	2797172	Shared Kitchen User (Lo..	Risk 2 (Medium)	25160 KENT RD	GLEN E..	IL	60137	05/10/19										
29	2555284		LA TAPENADE GATE H14	LA TAPENADE (T3 H14)	2363766	Restaurant	Risk 1 (High)	11601 W TOLUHY AVE	CHICAGO	IL	60666	05/04/19										
30	2554990		CHARTWELLS	NOBLE ACADEMY	2540066	School	Risk 1 (High)	1443 N Ogden AVE	CHICAGO	IL	60610	05/10/19										
31	2555535		SUBWAY	SUBWAY	1739186	Restaurant	Risk 1 (High)	100 W 87TH ST	CHICAGO	IL	60620	05/05/19										
32	2555229		FERGUSON CPC	FERGUSON CPC	2138637	School	Risk 1 (High)	1420 N HUDSON	CHICAGO	IL	60610	05/04/19										
33	2555159		Kozminski	Kozminski	31151	School	Risk 1 (High)	936 E 54th St (S400S)	CHICAGO	IL	60615	05/03/19										
34	2554556		THE GREAT AMERICAN BA...	THE GREAT AMERICAN BAGEL (T1 B-14)	1879166	Restaurant	Risk 1 (High)	11601 W TOLUHY AVE	CHICAGO	IL	60666	04/20/19										
35	2554497		WINGSTOP RESTAURANT	WINGSTOP RESTAURANT	2834884	Restaurant	Risk 1 (High)	2501 W LAWRENCE AVE	CHICAGO	IL	60625	04/19/19										
36	2554479		KENDRA'S ROLL ICE CREAM	KENDRA'S ROLL ICE CREAM	2641207	Restaurant	Risk 2 (Medium)	4309 N Milwaukee Ave	CHICAGO	IL	60641	04/19/19										
37	2554457		TACQUERIA Y RESTAURANT...	TACQUERIA Y RESTAURANT LA PIRI	2283990	Restaurant	Risk 1 (High)	6102 W DIVERSEY AVE	CHICAGO	IL	60639	04/19/19										
38	2554290		LIPS RESTAURANT	LIPS RESTAURANT	2437167	Restaurant	Risk 1 (High)	2229 S MICHIGAN AVE	CHICAGO	IL	60616	04/13/19										
39	2554291		MANA	MANA	2712278	Grocery Store	Risk 2 (Medium)	434 E 71ST ST	CHICAGO	IL	60619	04/13/19										
40	2554274		LOWCOUNTRY 2	LOWCOUNTRY 2	2550300	Restaurant	Risk 1 (High)	1132 S WABASH AVE	CHICAGO	IL	60605	04/13/19										
41	2554171		RPM ITALIAN	RPM ITALIAN	2120388	Restaurant	Risk 1 (High)	52 W ILLINOIS	CHICAGO	IL	60654	04/11/19										
42	2554062		BOURBON ON DIVISION	BOURBON ON DIVISION	2306039	Restaurant	Risk 2 (Medium)	2050 W DIVISION ST	CHICAGO	IL	60622	04/07/19										

i.

3. Workflow for Data Profiling



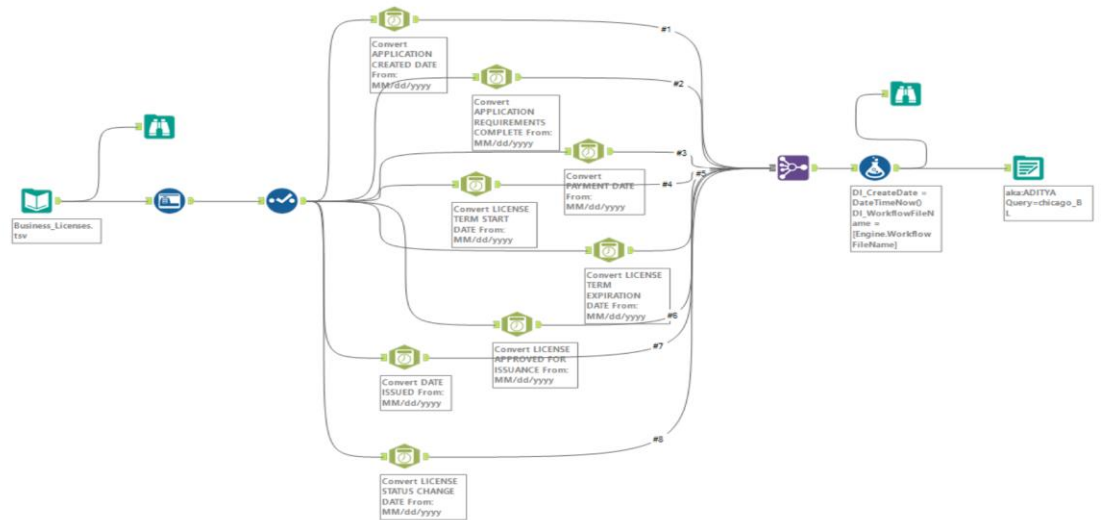
a.



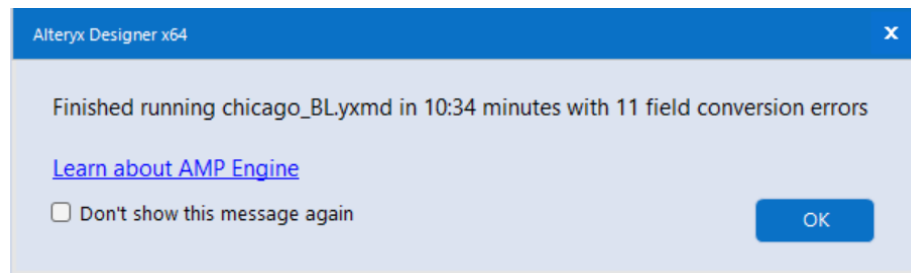
b.

Business Licenses

1. Workflow for Staging Table



a.



b.

2. DDL Script for Staging Table Creation

a. Table Creation

```

USE [Chicago_FI_Stage]
GO

SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[chicago_BL](
    [LICENSE ID] [int] NULL,
    [ID] [char](16) NULL,
    [ACCOUNT NUMBER] [int] NULL,
    [PRECINCT] [smallint] NULL,
    [SITE NUMBER] [smallint] NULL,
    [LEGAL NAME] [varchar](117) NULL,
    [DOING BUSINESS AS NAME] [varchar](128) NULL,
    [ADDRESS] [nvarchar](80) NULL,
    [CITY] [varchar](30) NULL,
    [STATE] [char](2) NULL,
    [ZIP CODE] [char](5) NULL,
    [WARD] [tinyint] NULL,
    [WARD PRECINCT] [char](6) NULL,
    [POLICE DISTRICT] [tinyint] NULL,
    [LICENSE CODE] [smallint] NULL,
    [LICENSE DESCRIPTION] [varchar](60) NULL,
    [BUSINESS ACTIVITY ID] [varchar](81) NULL,
    [BUSINESS ACTIVITY] [varchar](254) NULL,
    [LICENSE NUMBER] [int] NULL,
    [APPLICATION TYPE] [char](6) NULL,
    [APPLICATION CREATED DATE] [varchar](10) NULL,
    [APPLICATION REQUIREMENTS COMPLETE] [char](10) NULL,
    [PAYMENT DATE] [char](10) NULL,
    [CONDITIONAL APPROVAL] [char](1) NULL,
    [LICENSE TERM START DATE] [char](10) NULL,
    [LICENSE TERM EXPIRATION DATE] [char](10) NULL,
    [LICENSE APPROVED FOR ISSUANCE] [char](10) NULL,
    [DATE ISSUED] [char](10) NULL,
    [LICENSE STATUS] [char](3) NULL,
    [LICENSE STATUS CHANGE DATE] [varchar](10) NULL,
    [SSA] [tinyint] NULL,
    [LATITUDE] [float] NULL,
    [LONGITUDE] [float] NULL,
    [LOCATION] [char](40) NULL,
    [New APPLICATION CREATED DATE] [date] NULL,
    [New PAYMENT DATE] [date] NULL,
    [New LICENSE TERM START DATE] [date] NULL,
    [New LICENSE TERM EXPIRATION DATE] [date] NULL,
    [New LICENSE APPROVED FOR ISSUANCE] [date] NULL,
    [New DATE ISSUED] [date] NULL,
    [New LICENSE STATUS CHANGE DATE] [date] NULL,
    [New APPLICATION REQUIREMENTS COMPLETE] [date] NULL,
    [DI_CreateDate] [datetime] NULL,
    [DI_WorkflowFileName] [nvarchar](max) NULL
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO

```

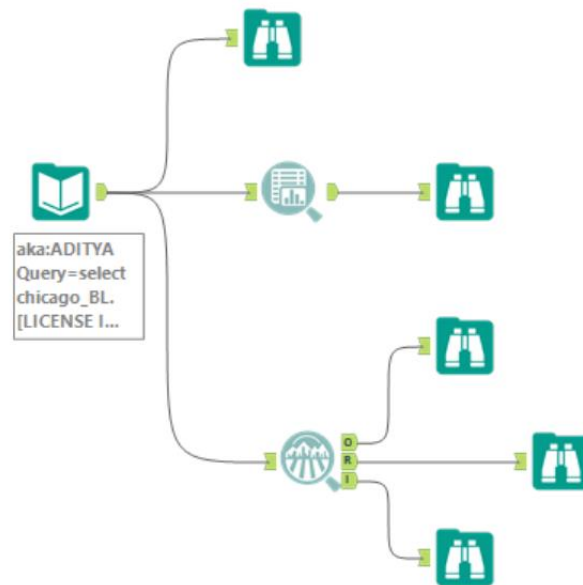
i.

b. Workflow output in SQL Server

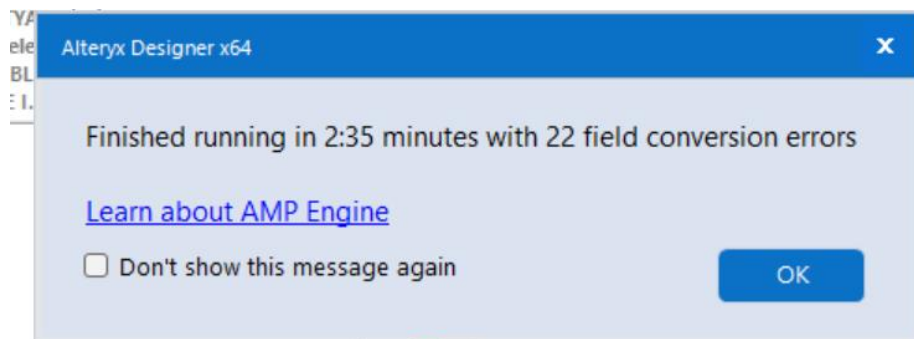
select * from chicago_BL											
119 %											
Results - 0 Messages											
	LICENSE ID	ACCOUNT NUMBER	PRECINCT	SITE NUMBER	LEGAL NAME	DOING BUSINESS AS NAME	ADDRESS	CITY	STATE	ZIP CODE	
1	2315626	43877-20140516	10232	38	10	PIZZA HUT #714393	5240 N PULASKI RD	CHICAGO	IL	60630	
2	2129584	2129584-20111129	307848	NULL	1	WHITNEY FOODS, INC.	2541 S DAMEN AVE FIRST B	CHICAGO	IL	60608	
3	2089144	2089144-20102117	350223	32	1	RUBY'S RESTAURANT, INC.	3175 W MADISON ST 11	CHICAGO	IL	60612	
4	1441897	1441897-20030930	268386	24	1	JAHRA I SINCHI	2620 W MONTROSE AVE	CHICAGO	IL	60618	
5	2443397	2443397-20100527	409540	26	1	CAFE CHEN	4740 N SPALDING AVE 1	CHICAGO	IL	60625	
6	2034719	1473160-20100116	271406	7	1	MARIA DELA LUZ RODRIGUEZ	4515 W DIVERSEY AVE	CHICAGO	IL	60638	
7	1255053	11880-20020816	26887	7	1	JOHNSTON PAINT & GLASS	9272 S SOUTH CHICAGO AVE 1ST	CHICAGO	IL	60617	
8	2275200	2088450-20130916	312658	38	1	3555 CLARK, INC.	3501-3507 N CLARK ST 1 & 2	CHICAGO	IL	60657	
9	2201385	2201385-20101205	411973	NULL	1	CHELSEA HAYLENE WELLMANN	23606 JENNINGS DELPHOS RD	DELPHOS OH		45833	
10	1758878	1475146-20091116	272856	48	1	DASPRODUCTION	5849 W IRVING PARK RD	CHICAGO	IL	60634	
11	1625172	20538-20070816	8092	44	1	LA NACIONAL, INC.	9801-9803 S EWING AVE	CHICAGO	IL	60617	
12	1535600	1220862-20041116	222739	53	3	TD AMERITRACE, INC.	4811 MICHIGAN AVE # 870	CHICAGO	IL	60611	
13	2541893	2541893-20100402	410203	34	1	TOA - 2020 WEST, LLC	2444 ELSTON AVE	CHICAGO	IL	60647	
14	1985327	1985327-20091116	14184	1	1	COLUMBUS GRILL, INC.	651 W WASHINGTON BLVD 1ST D E F	CHICAGO	IL	60661	
15	1463907	6075-20040516	25312	43	1	JAN DEE JEWELRY	1425 W DIVERSEY PKWY 1ST	CHICAGO	IL	60614	
16	2584187	2584187-20171025	422649	35	1	GOOPS DISCIPLE INFAN LLC	4164 N LINCOLN AVE 1ST	CHICAGO	IL	60618	
17	2440584	2146849-20100216	325917	55	2	DRAUPNIR SERVICES, LLC	321 N CLARK ST 5TH	CHICAGO	IL	60654	
18	1289581	1902694-20020816	269885	13	1	TRI TECH SOLUTION KAM INC	5415 S INGLETSIDE AVE	CHICAGO	IL	60615	
19	1720696	21420-20090316	8075	39	1	FINEST FASHIONS INC	3433 N WOOD AVE	CHICAGO	IL	60641	
20	1931772	1905361-20081116	331580	39	1	NORTHWESTERN PEAK PERFORMANCE HEALTH CARE, LTD.	6139 W TOLUHY AVE	CHICAGO	IL	60648	
21	2474049	2032059-20100816	352829	9	1	HENRI, LLC	18 S MICHIGAN AVE 1ST	CHICAGO	IL	60603	
22	1762882	1995817-20081116	294477	43	1	NORTH PARK HOOKAH LOUNGE, INC.	3316 W FOSTER AVE	CHICAGO	IL	60625	
23	2341811	2341811-20140710	391806	44	1	PROJECT DEVELOPMENT CORPORATION	5827 W HURON ST	CHICAGO	IL	60644	
24	2571927	199257-20100216	299710	12	5	HIGHLAND PARK CVS, LLC	7858 S HALSTED ST	CHICAGO	IL	60620	
25	1242154	12534-20020516	86629	8	2	STARBUCKS BAKERY RESTAURANT, LTD.	6501 W WYRMS PARK RD 1 FT	CHICAGO	IL	60634	
26	1673345	1673345-20090324	276781	36	2	RAVENSWOOD STATION BAR & GRILL, INC.	4707-4709 N DAMEN AVE	CHICAGO	IL	60625	
27	2411721	2411721-20150630	210587	9	4	CONSTELLATION NEW ENERGY INC.	28 N WACKER DR 21 2100	CHICAGO	IL	60606	
28	2711046	2137845-20030316	369387	16	1	PAVIN CHICAGO LLC	5804 W BELMONT AVE	CHICAGO	IL	60634	
29	2105640	36365-20121116	15088	7	1	UNCLE MIKE'S PLACE INC	1700 W GRANE AVE 1ST	CHICAGO	IL	60622	
30	2724201	35633-20200616	15098	54	1	J.B.A. INC.	5311 S BLACKSTONE AVE	CHICAGO	IL	60615	
31	1678034	46574-20071216	16671	2	1	MICHIGAN FOOD PRODUCTS, INC.	2117 S THROOP ST	CHICAGO	IL	60608	
32	2020276	1048450-20091216	326588	21	2	NICKOLE'S PARTY INC	4006 W LAWRENCE AVE 1ST	CHICAGO	IL	60630	
33	1889073	33027-20080416	53914	44	1	THE PRINTING SOURCE, INC.	3825 N DEVON AVE 1	CHICAGO	IL	60659	
34	1268107	1424330-20021116	245708	6	1	MARIAM M KUSPER	3631 W 58TH PL	CHICAGO	IL	60629	
35	1407860	1333816-20040216	262131	24	1	HANDSCREATE, INC.	2540 W BROADWAY	CHICAGO	IL	60657	
36	1627838	1803751-20070816	26893	47	3	HYDE PARK PET INC.	5210 S HARPER AVE	CHICAGO	IL	60615	
37	1738654	1988916-20000816	303710	33	1	LAWRENCE & MARINE, INC.	BP	755 W LAWRENCE AVE 1ST	CHICAGO	IL	60640
38	1359819	27946-20050616	7654	48	9	BRIDGESTONE RETAIL OPERATIONS, LLC	PIRESTONE	989 W NORTH AVE	CHICAGO	IL	60622
39	1350262	1350262-20030714	261818	11	1	ELANE AND ELI ARGAMASSO	BIG E'S COFFEE LOUNGE	5131 N DAMEN AVE	CHICAGO	IL	60625
40	2512202	2204233-20170416	4229	NULL	1	J T AMUSEMENT INC	13841 KOSMINSTER	CREST.	IL	60445	
41	2510417	2385322-20170316	398569	4	1	KRISTINA LEE	3811 N RIMMAL AVE	CHICAGO	IL	60618	

i.

3. Workflow for Data Profiling

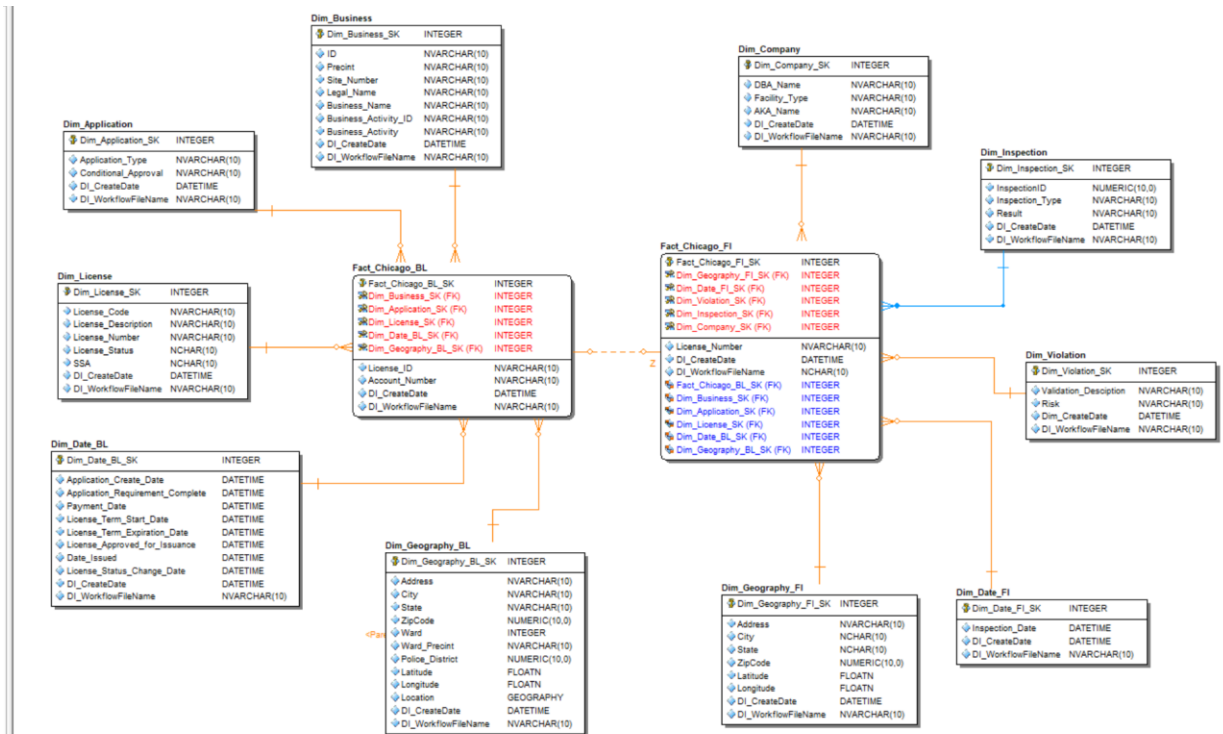


a.



b.

PART – 2



1.

```

Connect - [Server Explorer]
ADITYA [SQL Server 16.0.1000.6 - Ac
  Databases
    System Databases
    Database Snapshots
    AdventureWorksLT2019
    AdventureWorksLT2022
    Chicago_FoodInspection
      Database Diagrams
      Tables
        System Tables
        FileTables
        External Tables
        Graph Tables
        dbo.chicago_BL_Stage
        dbo.chicago_FI_Stage
        dbo.Dim_Application
        dbo.Dim_Business
        dbo.Dim_Company
        dbo.Dim_Date_BL
        dbo.Dim_Date_FI
        dbo.Dim_Geography_BL
        dbo.Dim_Geography_FI
        dbo.Dim_Inspection
        dbo.Dim_License
        dbo.Dim_Violation
        dbo.Fact_Chicago_BL
        dbo.Fact_Chicago_FI
      Views
      External Resources
      Synonyms
      Programmability
      Query Store
      Service Broker
      Storage
      Security
      chnook
      chnook_DataModel
      dadabi
      NYC_FoodInspection
      Database Diagrams
      Tables
      System Tables
      FileTables

  ER/Studio Data Architect SQL Code Generation
  * Project : Chicago_DM.DM1
  * Date Created : Sunday, June 18, 2023 20:11:26
  * Target DBMS : Microsoft SQL Server 2019
  */

USE Chicago_FI_Stage
go
/*
 * TABLE: Dim_Application
 */
CREATE TABLE Dim_Application(
    Dim_Application_SK int NOT NULL,
    Application_Type nvarchar(10) NULL,
    Conditional_Approval nvarchar(10) NULL,
    DI_CreateDate datetime NULL,
    DI_WorkflowFileName nvarchar(10) NULL,
    CONSTRAINT PK30 PRIMARY KEY NONCLUSTERED (Dim_Application_SK)
)
go

IF OBJECT_ID('Dim_Application') IS NOT NULL
    PRINT '<<< CREATED TABLE Dim_Application >>>'
ELSE
    PRINT '<<< FAILED CREATING TABLE Dim_Application >>>'
go

/*
 * TABLE: Dim_Business
 */
CREATE TABLE Dim_Business(
    Dim_Business_SK int NOT NULL,
    ID nvarchar(10) NULL,
    Precint nvarchar(10) NULL,
    Site_Number nvarchar(10) NULL,
    Legal_Name nvarchar(10) NULL,
    Business_Name nvarchar(10) NULL,
    Business_Activity_ID nvarchar(10) NULL,
    Business_Activity nvarchar(10) NULL,
    DI_CreateDate datetime NULL,
    DI_WorkflowFileName nvarchar(10) NULL,
    CONSTRAINT PK28 PRIMARY KEY NONCLUSTERED (Dim_Business_SK)
)
go

```

2.