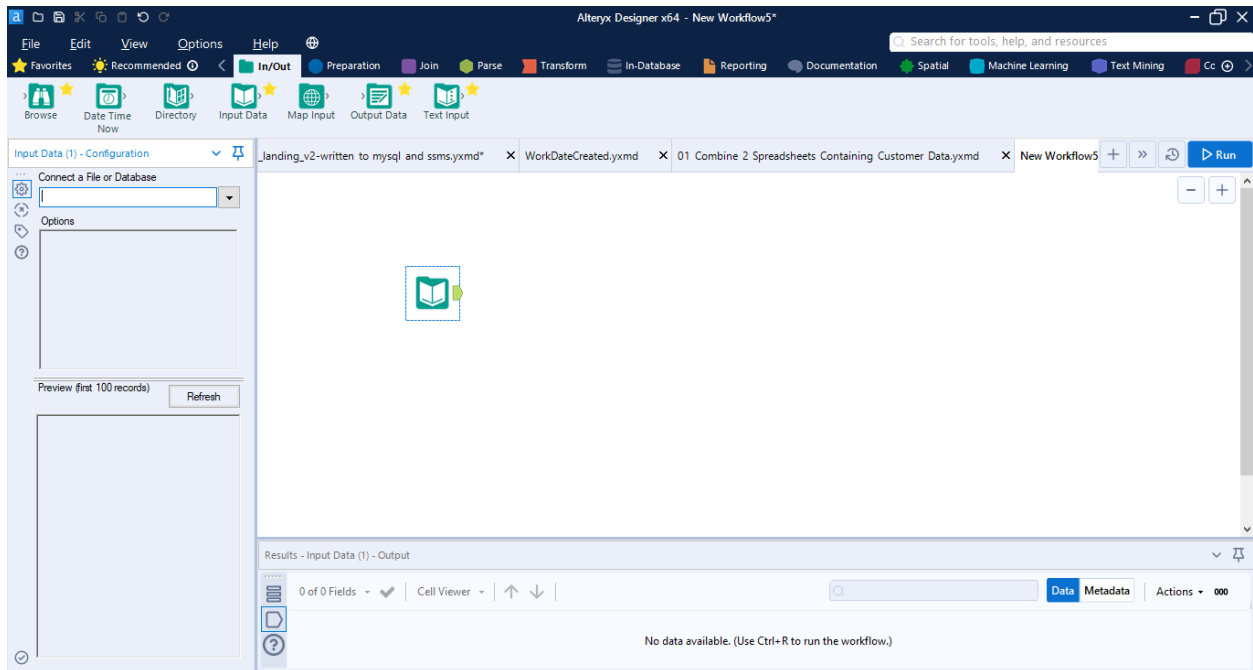


1)Downloaded the Altrex Designer Version



2) On the workspace pulled the input data, now I will load the sf\_airtraffic\_landings file which is there on one drive.

Alteryx Designer x64 - New Workflow5\*

File Edit View Options Help

Search for tools, help, and resources

Favorites Recommended In/Out Preparation Join Parse Transform In-Database Reporting Documentation Spatial Machine Learning Text Mining Cc

Browse Date Time Directory Input Data Map Input Output Data Text Input

Input Data (1) - Configuration

Connect a File or Database

C:\Users\admin\Northeastern University\Sherman, Richard - damg7370\_2

Options

Name	Value
1 Record Limit	
2 File Format	Comma Separated Val
3 Search SubDirs	<input type="checkbox"/>
4 Output File Name as Field	No
5 Delimiters	;
6 First Row Contains Field Names	<input checked="" type="checkbox"/>
7 Field Length	254
8 Start Data Import on Line	1
9 Ignore Delimiters in	Quotes
10 Treat Read Errors as Warnings	<input type="checkbox"/>
11 Code Page	ISO 8859-1 Latin I

Preview (first 100 records)

Activity Period	Operating Airline	Operating Airline IATA Code
200507	ABX Air	GB
200507	ABX Air	GB
200507	ATA Airlines	TZ
200507	ATA Airlines	TZ
200507	Air Canada	AC
200507	Air Canada	AC
200507	Air Canada	AC

Results - Input Data (1) - Output

0 of 0 Fields Cell Viewer

No data available. (Use Ctrl+R to run the workflow.)

3) Loaded the file in "Input".

Alteryx Designer x64 - New Workflow5\*

File Edit View Options Help

Search for tools, help, and resources

Favorites Recommended In/Out Preparation Join Parse Transform In-Database Reporting Documentation Spatial Machine Learning Text Mining Cc

Browse Date Time Directory Input Data Map Input Output Data Text Input

Browse (2) - Configuration

26,457 records displayed, 14 fields, 1.3 MB

Profile

26,457 records displayed, 14 fields, 1.3 MB

Activity Period

Activity Period	Count
201710	173
201705	168
201706	168
201903	167
201703	166

187 more >

Operating Airline

Operating Airline	Count
United Airlines	3,691
United Airlines - Pre 07/01/2013	1,834
Alaska Airlines	1,591
Delta Air Lines	1,567
SkyWest Airlines	1,473

109 more >

Operating Airline IATA Code

Results - Browse (2) - Input

14 of 14 Fields 26,457 records displayed, 1.3 MB

Record	Activity Period	Operating Airline	Operating Airline IATA Code	Published Airline	Published Airline IATA Code
1	200507	ABX Air	GB	ABX Air	GB
2	200507	ABX Air	GB	ABX Air	GB
3	200507	ATA Airlines	TZ	ATA Airlines	TZ
4	200507	ATA Airlines	TZ	ATA Airlines	TZ
5	200507	Air Canada	AC	Air Canada	AC
6	200507	Air Canada	AC	Air Canada	AC
7	200507	Air Canada	AC	Air Canada	AC
8	200507	Air Canada	AC	Air Canada	AC

4) Browse and run

Alteryx Designer x64 - New Workflow5\*

File Edit View Options Help Search for tools, help, and resources

Favorites Recommended In/Out Preparation Join Parse Transform In-Database Reporting Documentation Spatial Machine Learning Text Mining Cc

Browse Date Time Now Directory Input Data Map Input Output Data Text Input

Browse (5) - Configuration 14 records displayed, 22 fields, 5,754 bytes

Report Profile 1 of 1 Fields Records 1 to 10

Record Layout

Record	Field	Value
1	[Null]	
2	[Null]	
3	[Null]	
4	[Null]	
5	[Null]	
6	[Null]	
7	[Null]	
8	[Null]	
9	[Null]	
10	[Null]	

Results - Browse (5) - Input 22 of 22 Fields 14 records displayed, 5,754 bytes

Record	Name	Field Category	Min	Max	Median	Std. Dev.	Percent Missing	Unique Value
1	Activity Period	String	[Null]	[Null]	[Null]	[Null]	0	192
2	Aircraft Body Type	String	[Null]	[Null]	[Null]	[Null]	0	4
3	Aircraft Manufacturer	String	[Null]	[Null]	[Null]	[Null]	0.064255	16

## 5) Running the result

Alteryx Designer x64 - New Workflow2\*

File Edit View Options Help Search for tools, help, and resources

Favorites Recommended In/Out Preparation Join Parse Transform In-Database Reporting Documentation Spatial Machine Learning Text Mining Cc

Browse Date Time Now Directory Input Data Map Input Output Data Text Input

A newer version of Alteryx Designer x64 is available: Click here for options

Workflow - Configuration Canvas Workflow Runtime Events Meta Info

Canvas Options

Layout Direction: Horizontal

Annotations: Show

Connection Progress: Show Only When Running

Start Here.yxmd X New Workflow1 X New Workflow2\* X +

Results - Workflow - Messages

All 0 Errors 0 Conv Errors 0 Warnings 1 Messages 6 Files Last Run Configuration

Designer x64 Started running at 09/18/2021 15:14:22

Designer x64 The Designer x64 reported: Allocating requested memory would be more than available physical memory. Reverting to 1584.0 MB of memory.

Input Data (1) 26,457 records were read from "C:\Users\admin\Northeastern University\Sherman, Richard - damo7370\_2021\_02\_fall\Data - San Francisco\Air Traffic Landings Statistics.csv"

Browse (2) 26,457 records

Browse (8) 294 records

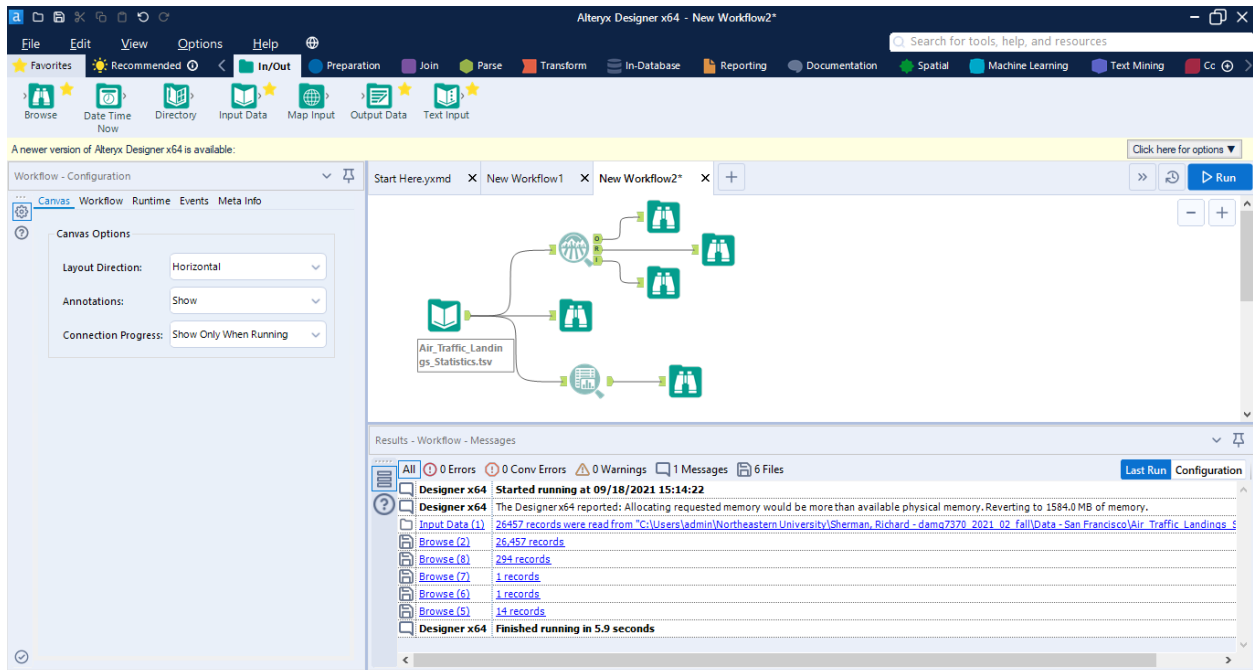
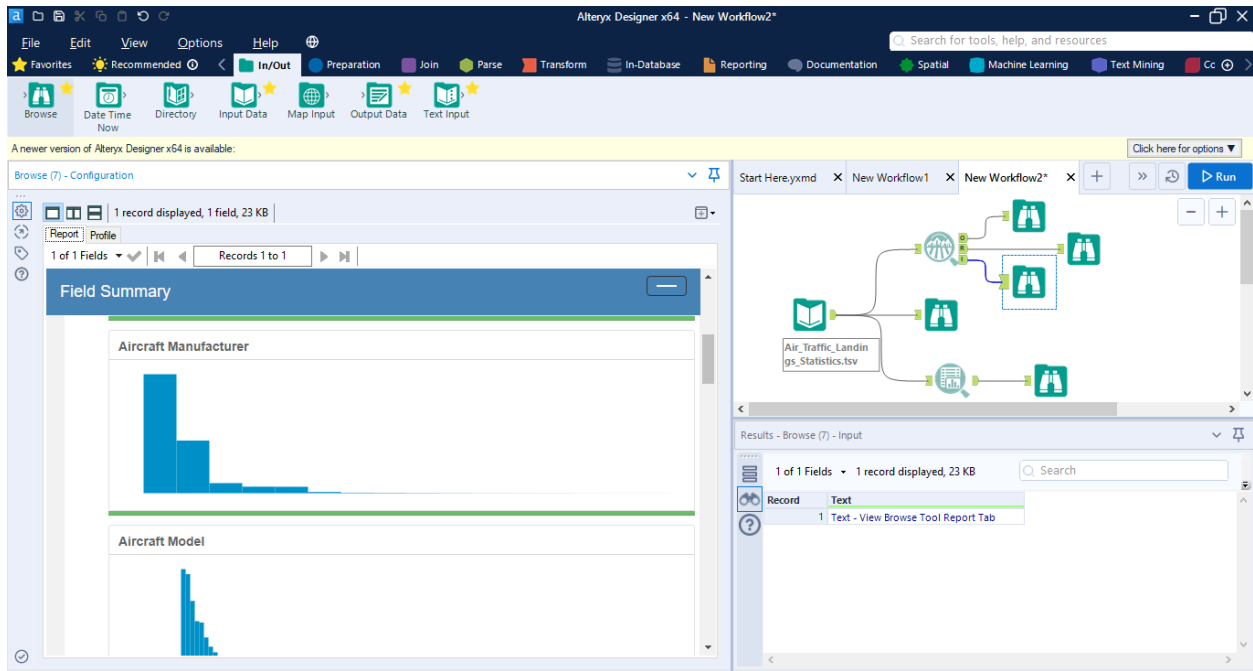
Browse (7) 1 records

Browse (6) 1 records

Browse (5) 14 records

Designer x64 Finished running in 5.9 seconds

## Seeing the stats after running:



Duplicating the previous flow and running the script using browse:

The screenshot shows the Alteryx Designer x64 interface. The top menu bar includes File, Edit, View, Options, and Help. Below the menu is a toolbar with icons for various tools: Browse, Date Time, Directory, Input Data, Map Input, Output Data, and Text Input. A notification banner at the top states: "A newer version of Alteryx Designer x64 is available." The main canvas displays a workflow titled "Copy of AirTrafficLanding-BD.yxmd". The workflow starts with an "Air\_Traffic\_Landing\_Stats\_Statistics.csv" input, followed by a "Join" tool, then a "Parse" tool, and finally an "Output Data" tool. The "Results - Workflow - Messages" pane at the bottom shows the execution results:

Message	Details
All	0 Errors 0 Conv Errors 0 Warnings 15 Messages 7 Files
Auto Field (9)	The FieldType of "Landing Count" changed to: Int16
Auto Field (9)	The FieldType of "Total Landed Weight" changed to: Int32
Browse (11)	26,457 records
Browse (7)	1 records
Browse (6)	1 records
Browse (5)	14 records
Designer x64	Finished running in 5.2 seconds

Again duplicated the previous workflow and ran the file:

The screenshot shows the Alteryx Designer x64 interface with a duplicated workflow. The workflow is titled "Copy of AirTrafficLanding-BD.yxmd". The workflow structure is identical to the first screenshot, starting with "Air\_Traffic\_Landing\_Stats\_Statistics.csv", followed by "Join", "Parse", and "Output Data" tools. The "Results - Workflow - Messages" pane at the bottom shows the execution results:

Message	Details
All	0 Errors 0 Conv Errors 0 Warnings 15 Messages 7 Files
Auto Field (9)	The FieldType of "Landing Count" changed to: Int16
Auto Field (9)	The FieldType of "Total Landed Weight" changed to: Int32
Browse (11)	26,457 records
Browse (7)	1 records
Browse (6)	2 records
Browse (5)	14 records
Designer x64	Finished running in 7.5 seconds

Alteryx Designer x64 - Copy of AirTrafficLanding-BD.yxmd\*

File Edit View Options Help

Search for tools, help, and resources

Favorites Recommended In/Out Preparation Join Parse Transform In-Database Reporting Documentation Spatial Machine Learning Text Mining Cc

Browse Date Time Now Directory Input Data Map Input Output Data Text Input

A newer version of Alteryx Designer x64 is available: [Click here for options](#)

Workflow - Configuration

Meta Info Canvas Workflow Runtime Events

Canvas Options

Layout Direction: Horizontal

Annotations: Show

Connection Progress: Show Only

Start Here.yxmd New Workflow1 AirTrafficLanding-BD.yxmd Copy of AirTrafficLanding-BD.yxmd

Run

Results - Workflow - Messages

All 0 Errors 0 Conv Errors 0 Warnings 15 Messages 6 Files

Last Run Configuration

Auto Field (9) The FieldType of "Landing Count" changed to: Int16

Auto Field (9) The FieldType of "Total Landed Weight" changed to: Int32

Browse (11) 26,457 records

Browse (7) 1 records

Browse (6) 2 records

Browse (5) 14 records

Designer x64 Finished running in 5.7 seconds

## Connected to Sakina Via Mysql

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

damg7370\_output

Tables

Views

Stored Procedures

Functions

sakila

Tables

actor

address

category

city

country

customer

film

film\_actor

film\_category

Administration Schemas

Information

Schema: sakila

Object Info Session

Query 1 Administration - Users and Privileges damg7370\_output - Schema sf\_airtraffic\_landing\_stats country sakila\_dim\_address

Local instance MySQL80

Users and Privileges

User Accounts

User	From Host
damg7370	%
mysql.infoschema	localhost
mysql.session	localhost
mysql.sys	localhost
root	localhost

Add Account Delete Refresh

Details for account damg7370@%

Login Account Limits Administrative Roles Schema Privileges

Schema Privileges

Schema and Host fields may use % and \_ wildcards. The server will match specific entries before wildcarded ones. Revoke All Privileges Delete Entry Add Entry..

Object Rights

☐ SELECT

☐ INSERT

☐ UPDATE

DDL Rights

☐ CREATE

☐ ALTER

☐ REFERENCES

Other Rights

☐ GRANT OPTION

☐ CREATE TEMPORARY TABLES

☐ LOCK TABLES

Revert Apply

Output

Action Output

#	Time	Action	Message	Duration / Fetch
10	18:43:30	SELECT * FROM sakila.city LIMIT 0, 1000	600 row(s) returned	0.000 sec / 0.000 sec
11	19:02:12	SELECT * FROM sakila.city LIMIT 0, 1000	600 row(s) returned	0.000 sec / 0.000 sec
12	19:02:13	SELECT * FROM address LIMIT 0, 1000	603 row(s) returned	0.000 sec / 0.000 sec
13	19:13:35	SELECT * FROM damg7370_output.sakila_dim_address LIMIT 0, 1000	603 row(s) returned	0.000 sec / 0.000 sec
14	21:19:32	SELECT * FROM Payment LIMIT 0, 1000	1000 row(s) returned	0.781 sec / 0.187 sec
15	21:21:21	SELECT * FROM rental LIMIT 0, 1000	1000 row(s) returned	0.063 sec / 0.125 sec

Context Help Snippets

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

The screenshot shows the Alteryx Designer x64 interface. The top menu bar includes File, Edit, View, Options, and Help. Below it is a toolbar with various tools like Auto Field, Create Samples, Data Cleansing, Filter, Formula, Generate Rows, Imputation, Multi-Field Binning, Multi-Field Formula, Multi-Row Formula, Oversample Field, Random % Sample, Record ID, Sample, Select, Select Records, Sort, and Tile. The main workspace displays a workflow with a 'Write to File or Database' tool configured with the following options:

Name	Value
1 Max Records Per File	
2 File Format	ODBC Database (odbc)
3 Passwords	Hide (Default)
4 Output Options	Overwrite Table (Drop)
5 Append Field Map	By Field Name
6 Pre Create SQL Statement	
7 Post Create SQL Statement	
8 Ignore Pre/Post SQL DROP TABLE Errors	<input type="checkbox"/>
9 Table/FieldName SQL Style	Quoted
10 Transaction Size	10000
11 Show Transaction Messages	<input type="checkbox"/>
12 Spatial Object Field	None
13 Spatial Object Field Size	8000

The 'Results - Output Data (14) - Input' pane shows a table with 16 fields and 6,250 of 26,457 records displayed (partial results). The table columns are: Record, Aircraft Manufacturer, Aircraft Model, Aircraft Version, Landing Count, Total Landed Weight, and DI\_CreateDate. The data shows various aircraft models and their landing statistics.

Created a Date time function

Now running and displaying the results:

Showing the date and time created in MySQL:

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar shows the 'SCHEMAS' pane with a tree view of databases and tables. The 'damg7370\_output' database is selected, and the 'sakila' schema is expanded, showing tables like actor, address, category, city, country, customer, film, film\_actor, and film\_category. The 'Query 1' pane shows the following SQL query:

```
SELECT * FROM damg7370_output.sakila_dim_address;
```

The 'Result Grid' pane shows the results of the query, with columns: iss2, district, postal\_code, phone, location, last\_update, di\_tool, di\_create\_date, and di\_job\_name. The data shows various locations and their creation dates.

On the right side of the interface, there is a text box that reads: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."

Showing the date and time created in MySQL:

Alteryx Designer x64 - Copy of sfAirTrafficLanding-AD.yxmd\*

File Edit View Options Help Search for tools, help, and resources

Favorites Recommended In/Out Preparation Join Parse Transform In-Database Reporting Documentation Spatial Machine Learning Text Mining Cc

Browse Input Data Output Data Text Input Data Cleansing Filter Formula Sample Select Sort Join Union Text To Columns Summarize Comment

Output Data (14) - Configuration

Write to File or Database

odbcDSN=dmg7370\_output\_MysqlUID=dmg7370

Options

Name	Value
1 Max Records Per File	
2 File Format	ODBC
3 Passwords	Hide (C)
4 Output Options	Overwrite
5 Append Field Map	By Field
6 Pre Create SQL Statement	
7 Post Create SQL Statement	
8 Ignore Pre/Post SQL DROP TABLE Errors	<input type="checkbox"/>
9 Table/FieldName SQL Style	Quoted
10 Transaction Size	10000
11 Show Transaction Messages	<input type="checkbox"/>
12 Spatial Object Field	None
13 Spatial Object Field Size	8000

☐ Take File/Table Name From Field

Append Suffix to File/Table Name

Field Containing File Name or Part of File Name

☒ Keep Field in Output

Start Here.yxmd x sfAirTrafficLanding-AD.yxmd\* x AirTrafficLanding-8D.yxmd x Copy of sfAirTrafficLanding-AD.yxmd\* x sakila\_dim\_addr + >> Run

Air\_Traffic\_Landin gs\_Statistics.tsv

DSN=dmg7370\_output\_Mysql Query=sf\_Airtraffi c\_landing\_stats

Results - Output Data (14) - Input

14 of 14 Fields • 7,357 of 26,457 records displayed (partial results)

Record	Activity Period	Operating Airline	Operating Airline IATA Code	Published Airline	Published Airline IATA Code	GEO Summary
1	200507	ABX Air	GB	ABX Air	GB	Domestic
2	200507	ABX Air	GB	ABX Air	GB	Domestic
3	200507	ATA Airlines	TZ	ATA Airlines	TZ	Domestic
4	200507	ATA Airlines	TZ	ATA Airlines	TZ	Domestic
5	200507	Air Canada	AC	Air Canada	AC	International
6	200507	Air Canada	AC	Air Canada	AC	International

Now connected to ssms :

Alteryx Designer x64 - Copy of sfAirTrafficLanding-v2.yxmd\*

File Edit View Options Help Search for tools, help, and resources

Favorites Recommended In/Out Preparation Join Parse Transform In-Database Reporting Documentation Spatial Machine Learning Text Mining Interface Data Investigation

Browse Date Time Directory Input Data Map Input Output Data Text Input

Output Data (16) - Configuration

Write to File or Database

sakidmg7370\_output[sf\_AirTrafficLanding\_stats]

Options

Name	Value
1 Max Records Per File	
2 File Format	ODBC Database Info
3 Output Options	Overwrite Table (Drop)
4 Append Field Map	By Field Name
5 Pre Create SQL Statement	
6 Post Create SQL Statement	
7 Ignore Pre/Post SQL DROP TABLE Errors	<input type="checkbox"/>
8 Table/FieldName SQL Style	Quoted
9 Transaction Size	10000
10 Show Transaction Messages	<input type="checkbox"/>
11 Spatial Object Field	None
12 Spatial Object Field Size	8000
13 Geometry Spatial Type	<input checked="" type="checkbox"/>
14 Projection	

☐ Take File/Table Name From Field

Append Suffix to File/Table Name

Field Containing File Name or Part of File Name

☒ Keep Field in Output

Start Here.yxmd x sf\_AirTrafficLanding.yxmd x sf\_AirTrafficLanding-v2.yxmd x Copy of sf\_AirTrafficLanding-v2.yxmd\* x + >> Run

Air\_Traffic\_Landin gs\_Statistics.tsv

DI\_CreateDate = DateTimeNow()

DSN=dmg7370\_output\_Mysql Query=sf\_Airtraffi c\_landing\_stats

sakidmg7370\_output Query=sf\_Airtraffi c\_landing\_stats

Results - Output Data (16) - Input

16 of 16 Fields • 6,877 of 26,457 records displayed (partial results)

Record	GEO Summary	GEO Region	Landing Aircraft Type	Aircraft Body Type	Aircraft Manufacturer	Aircraft Model	Aircraft Version	Landing Count	Total Landings
1	Domestic	US	Freighter	Narrow Body	McDonnell Douglas	DC-9	30	40	4066000
2	Domestic	US	Freighter	Narrow Body	McDonnell Douglas	DC-9	41	1	102000
3	Domestic	US	Passenger	Narrow Body	Boeing	757	200	2	396000
4	Domestic	US	Passenger	Narrow Body	Boeing	757	300	167	37408000
5	International	Canada	Passenger	Wide Body	Boeing	767	333	320000	21520000
6	International	Canada	Passenger	Narrow Body	Airbus	A319	114	146	20761200
7	International	Canada	Passenger	Narrow Body	Airbus	A320	211	2	343040
8	International	Canada	Passenger	Narrow Body	Airbus	A321	211	2	343040

Running the results in SSMS:

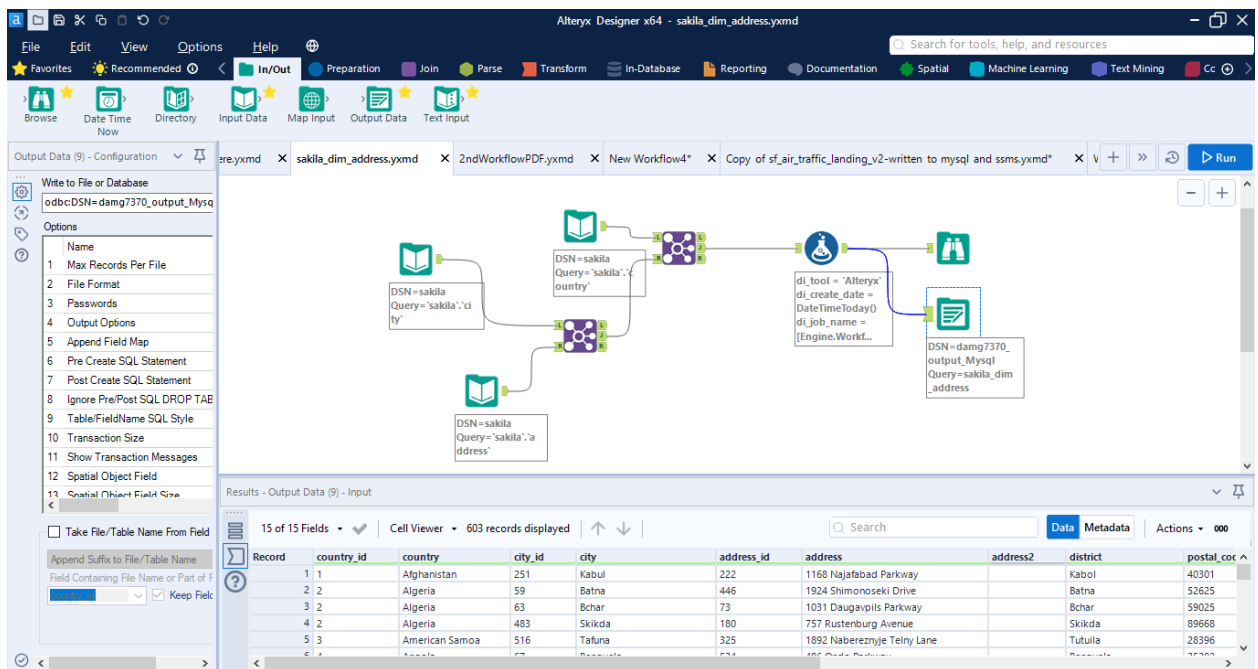


select \* from damg7370\_output.dbo.sf\_air\_traffic\_landing\_stats

LandingID	Activity_Period	Operating Airline	Operating Airline IATA Code	Published Airline	Published Airline IATA Code	GEO Summary	GEO Region	Landing Aircraft Type	Aircraft Body Type	Aircraft Manufacturer	Aircraft Model	Aircraft Version	Landing Count	Total
1	200507	ABX Air	GB	ABX Air	GB	Domestic	US	Freighter	Narrow Body	McDonnell Douglas	DC-9	30	40	40
2	200507	ABX Air	GB	ABX Air	GB	Domestic	US	Freighter	Narrow Body	McDonnell Douglas	DC-9	41	1	10
3	200507	ATA Airlines	TZ	ATA Airlines	TZ	Domestic	US	Passenger	Narrow Body	Boeing	757	200	2	39
4	200507	ATA Airlines	TZ	ATA Airlines	TZ	Domestic	US	Passenger	Narrow Body	Boeing	757	300	167	37
5	200507	Air Canada	AC	Air Canada	AC	International	Canada	Passenger	Wide Body	Boeing	767	333	1	32
6	200507	Air Canada	AC	Air Canada	AC	International	Canada	Passenger	Narrow Body	Airbus	A319	114	160	21
7	200507	Air Canada	AC	Air Canada	AC	International	Canada	Passenger	Narrow Body	Airbus	A320	211	146	20
8	200507	Air Canada	AC	Air Canada	AC	International	Canada	Passenger	Narrow Body	Airbus	A321	211	2	34
9	200507	Air China	CA	Air China	CA	International	Asia	Passenger	Wide Body	Boeing	747	400	23	14
10	200507	Air France	AF	Air France	AF	International	Europe	Passenger	Wide Body	Boeing	747	400	31	16
11	200507	Air New Zealand	NZ	Air New Zealand	NZ	International	Australia / Oceania	Passenger	Wide Body	Boeing	747	400	14	88
12	200507	AirTran Airways	FL	AirTran Airways	FL	Domestic	US	Passenger	Narrow Body	Boeing	737	700	62	79
13	200507	Alaska Airlines	AS	Alaska Airlines	AS	Domestic	US	Passenger	Narrow Body	Boeing	737	400	224	33
14	200507	Alaska Airlines	AS	Alaska Airlines	AS	International	Canada	Passenger	Narrow Body	Boeing	737	400	33	39
15	200507	Alaska Airlines	AS	Alaska Airlines	AS	International	Mexico	Passenger	Narrow Body	Boeing	737	400	85	10
16	200507	Alaska Airlines	AS	Alaska Airlines	AS	Domestic	US	Passenger	Narrow Body	Boeing	737	700	34	43
17	200507	Alaska Airlines	AS	Alaska Airlines	AS	International	Canada	Passenger	Narrow Body	Boeing	737	700	27	34
18	200507	Alaska Airlines	AS	Alaska Airlines	AS	Domestic	US	Passenger	Narrow Body	Boeing	737	800	1	14
19	200507	Alaska Airlines	AS	Alaska Airlines	AS	International	Canada	Passenger	Narrow Body	Boeing	737	800	1	14
20	200507	Alaska Airlines	AS	Alaska Airlines	AS	Domestic	US	Passenger	Narrow Body	Boeing	737	900	4	58
21	200507	Alaska Airlines	AS	Alaska Airlines	AS	International	Mexico	Passenger	Narrow Body	McDonnell Douglas	A320	211	7	91

Now the PDF Workflows:

Sakila\_Address\_Dimensions:



Sakila Fact Sales:

Alteryx Designer x64 - SakilaFactSales.yxmd

File Edit View Options Help

Search for tools, help, and resources

Favorites Recommended In/Out Preparation Join Parse Transform In-Database Reporting Documentation Spatial Machine Learning Text Mining Cc

Browse Date Time Now Directory Input Data Map Input Output Data Text Input

Workflow - Configuration

Events Meta Info Canvas Workflow Runtime

Canvas Options

Layout Direction: Horiz

Annotations: Show

Connection Progress: Show

Workflow: sakila\_dim\_address.yxmd X sakila\_fact\_sales.yxmd X New Workflow4 X Copy of sf\_air\_traffic\_landing\_v2-written to mysql and sms.yxmd X Wo + >> Run

DSN=sakila  
Query='sakila';re  
ntal'

DSN=sakila  
Query='sakila';p  
ayment'

DSN=dmg7370\_  
output\_Mysql  
Query=akasakila  
output\_query\_ren  
ta...

[customer\_id] =  
[payment\_id]

DSN=dmg7370\_  
output\_Mysql  
Query=Sakilaoutp  
utquery\_Salesall

DSN=sakila  
Query=Outputqu  
erysakilasales\_wr  
ong...

Results - Workflow - Messages

All 0 Errors 0 Conv Errors 0 Warnings 15 Messages 0 Files

Last Run Configuration

Output Data (9) 5 records were written to odbc:DSN=sakila;UID=root;PWD=\_\_EncPwd1\_\_(aka:sakilaoutput\_NorentalPayment)

Filter (5) 1 records were True and 16043 were False

Output Data (6) 1 records were written to odbc:DSN=dmg7370\_output\_Mysql;UID=root;PWD=\_\_EncPwd1\_\_(Sakilaoutputquery\_Salesall)

Output Data (7) 16043 records were written to odbc:DSN=sakila;UID=root;PWD=\_\_EncPwd1\_\_(Outputquerysakilasales\_wrongcustomer)

Output Data (8) ODBC Driver version: 03.80

Output Data (8) 0 records were written to odbc:DSN=dmg7370\_output\_Mysql;UID=root;PWD=\_\_EncPwd1\_\_(akasakilaoutput\_query\_rental\_withoutpayment)

Designer x64 Finished running in 24.4 seconds