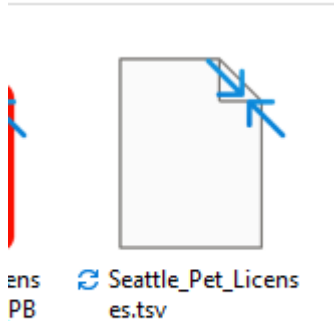


Alteryx - Perform Data profile and preparation on Seattle Pet License

Submitted by Yamini Manral, NUID 002703881

Upload all execution screen shots which should contain -

1. Download Seattle pet license data from Seattle Pet Licenses | City of Seattle Open Data portal (TSV format)



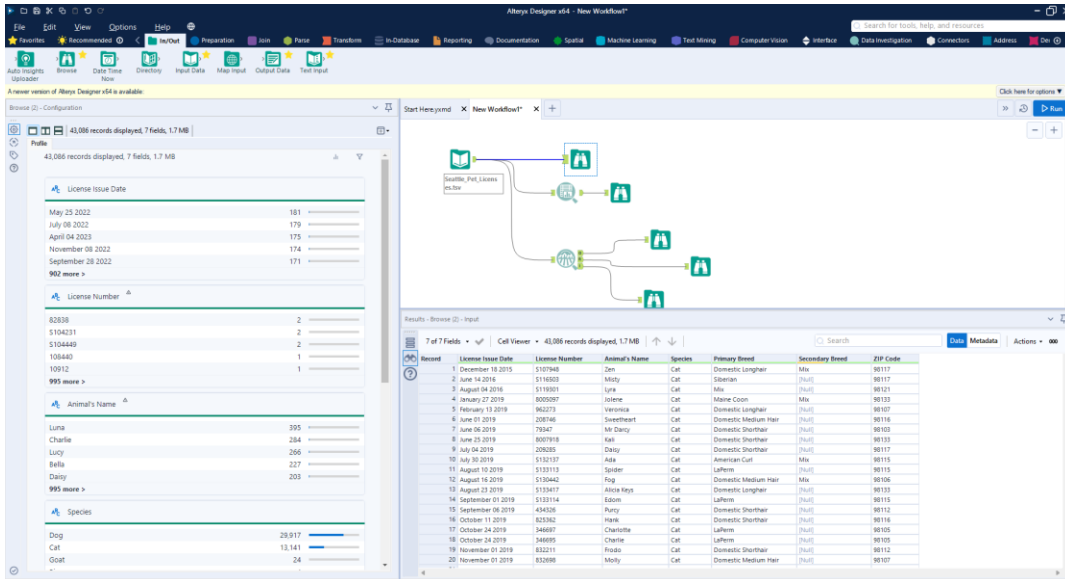
Loaded TSV file into Alteryx:

The screenshot shows the Alteryx Designer interface. On the left, the 'Input Data (1)' tool is configured with the file path 'C:\Users\Yamini Manral\Desktop\Summer Semester\DAAG7370\DAAG7370\Assignments - DAAG7370\Seattle_Pet_Licenses.es.tsv'. The 'Record Limit' is set to 100. Below the configuration, a preview of the data is shown as a table with columns: License Issue Date, License Number, Animal's Name, Species, Primary Breed, and Secondary Breed. The table contains 27 rows of data. On the right, a workflow diagram is visible, showing the 'Seattle_Pet_Licenses.es.tsv' tool connected to a 'Data Profile' tool, which is then connected to a 'Data Preparation' tool. The 'Results - Input Data (1) - Messages' pane at the bottom shows the message: '45088 records were read from "C:\Users\Yamini Manral\Desktop\Summer Semester\DAAG7370\DAAG7370\Assignments - DAAG7370\Seattle_Pet_Licenses.es.tsv".'

License Issue Date	License Number	Animal's Name	Species	Primary Breed	Secondary Breed
December 18 2015	5107940	Zen	Cat	Domestic Longhair	Mix
June 14 2016	5118303	Misty	Cat	Siberian	[Null]
August 04 2016	5119301	Lynx	Cat	Mix	[Null]
January 27 2019	8005087	Jolene	Cat	Maine Coon	Mix
February 13 2019	962273	Veronica	Cat	Domestic Longhair	[Null]
June 01 2019	205746	Sweetheart	Cat	Domestic Medium Hair	[Null]
June 06 2019	79347	Mr Darcy	Cat	Domestic Shorthair	[Null]
June 25 2019	8007919	Kali	Cat	Domestic Shorthair	[Null]
July 04 2019	209085	Daisy	Cat	Domestic Shorthair	[Null]
July 30 2019	5132137	Aida	Cat	American Curl	Mix
August 10 2019	5133113	Spider	Cat	LaPerm	[Null]
August 16 2019	5130442	Fog	Cat	Domestic Medium Hair	Mix
August 23 2019	5132417	Alicia Keys	Cat	Domestic Longhair	[Null]
September 01 2019	5133114	Edson	Cat	LaPerm	[Null]
September 06 2019	434326	Purcy	Cat	Domestic Shorthair	[Null]
October 11 2019	825362	Hank	Cat	Domestic Shorthair	[Null]
October 24 2019	346687	Charlotte	Cat	LaPerm	[Null]
October 24 2019	346695	Charlie	Cat	LaPerm	[Null]
November 01 2019	832211	Frodo	Cat	Domestic Shorthair	[Null]
November 01 2019	832088	Molly	Cat	Domestic Medium Hair	[Null]
November 12 2019	832084	Narcsikka	Cat	Domestic Medium Hair	[Null]
November 21 2019	8002549	Maxx	Cat	American Shorthair	[Null]
November 23 2019	5104077	Ruby	Cat	Domestic Medium Hair	Mix
December 03 2019	5130444	Paighe	Cat	Flagdoll	[Null]
December 11 2019	734454	Grace	Cat	Domestic Medium Hair	[Null]
January 12 2020	5151906	Sammy	Cat	Domestic Shorthair	Mix
January 10 2020	51481177	Kira	Cat	Domestic Shorthair	[Null]

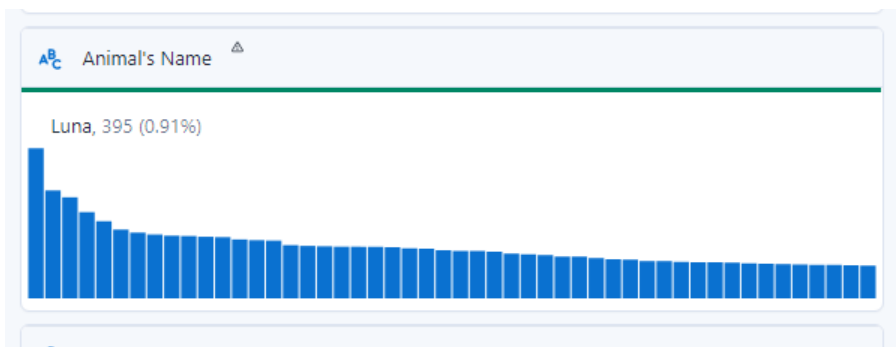
2. Profile metrics and your analysis description the analysis

After loading the data, Alteryx correctly displays the number of records and columns for the input TSV file.



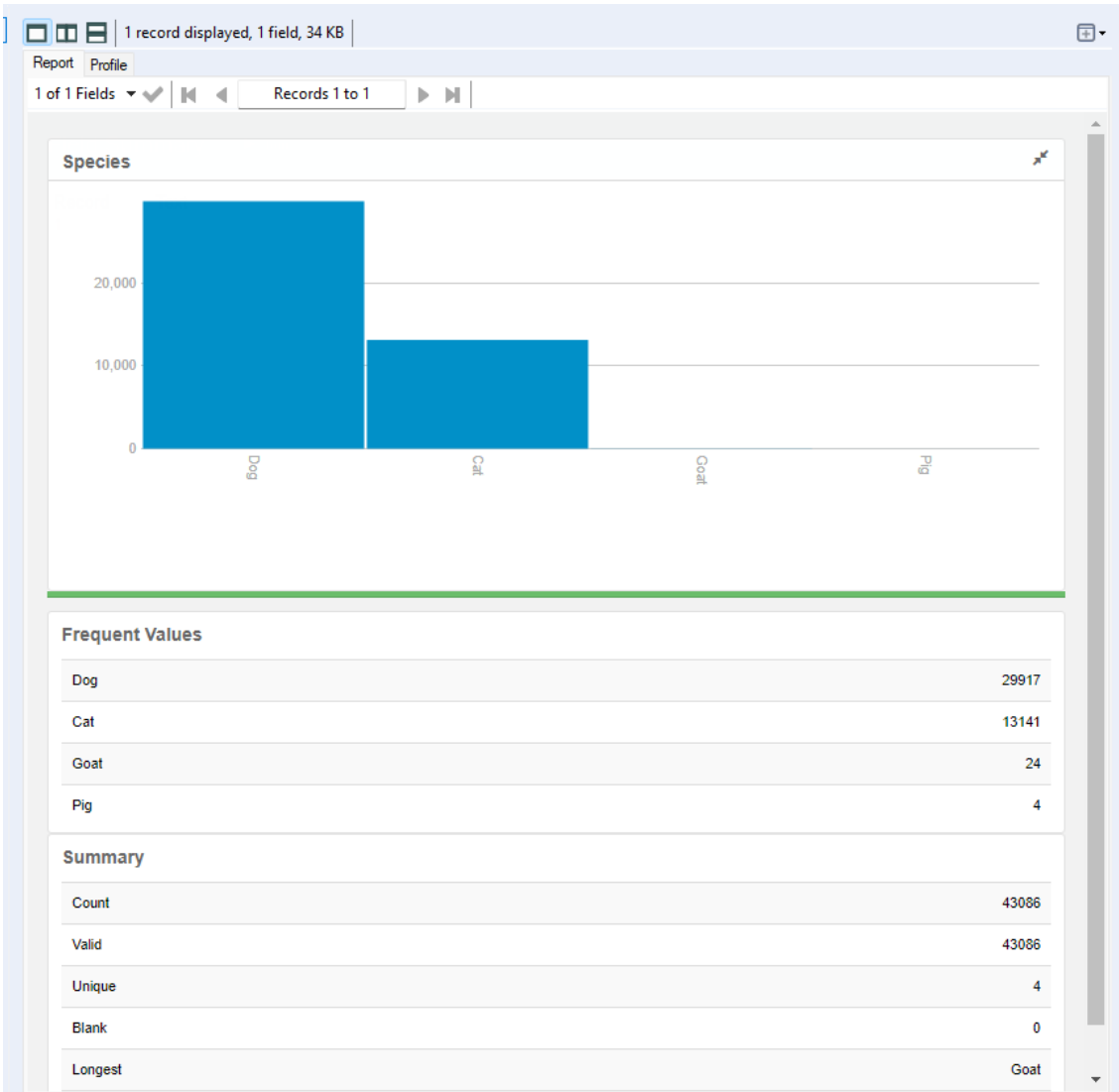
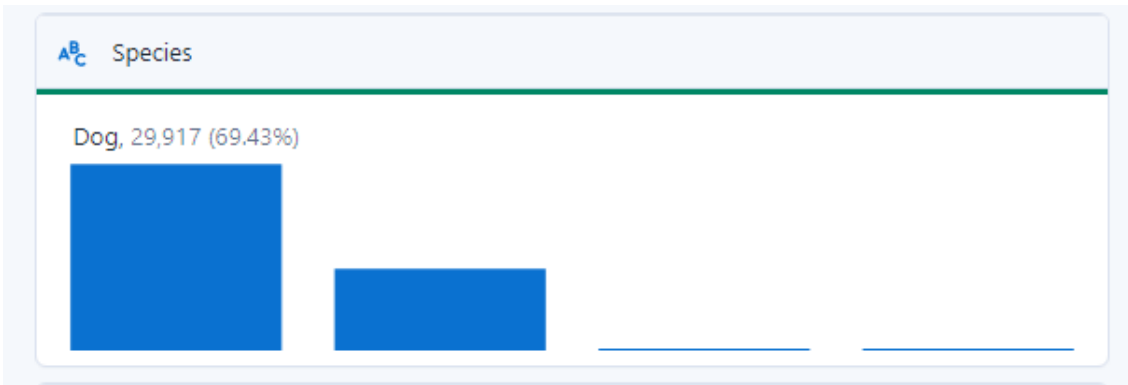
Some useful insights that we can immediately derive from the initial profiling:

- Most popular pet name is LUNA

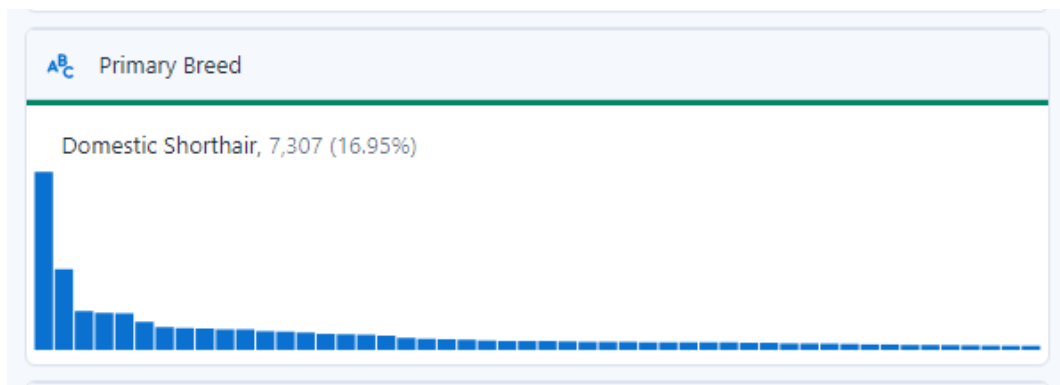


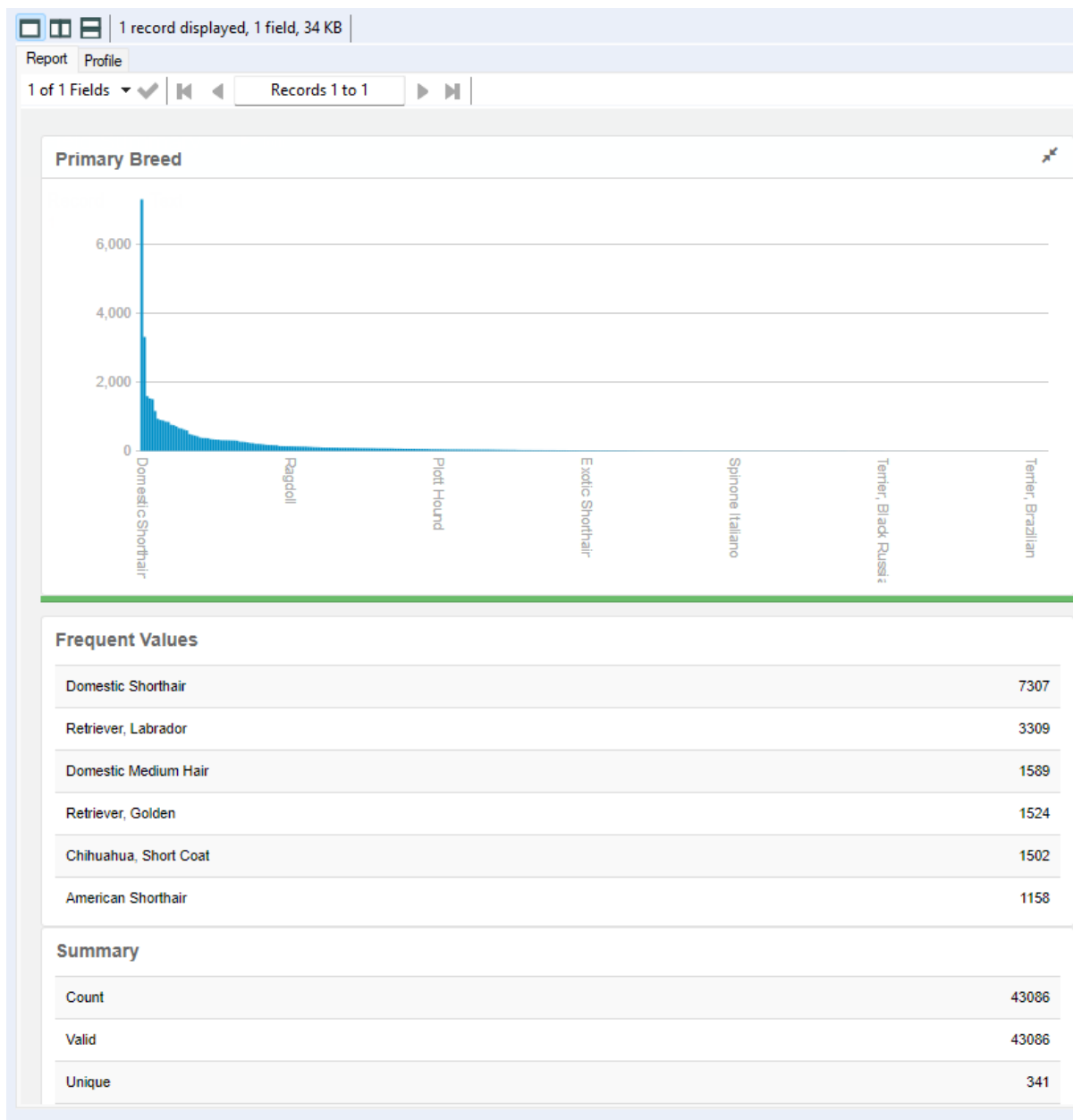
Frequent Values	
Luna	395
Charlie	284
Lucy	266
Bella	227
Daisy	203
Max	181
Summary	
Count	43086
Valid	43054
Unique	12780
Blank	32
Longest	Rose Lee the Huntress Wilderness Spirit Wand
Shortest	Z

- Of all the pets owned, DOGS is the most common pet species

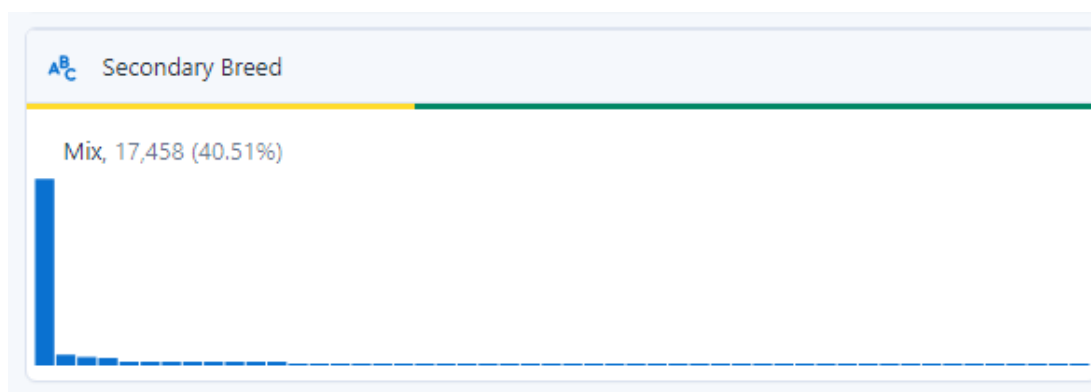


- Most popular Primary breed is DOMESTIC SHORTHAI (Cats)

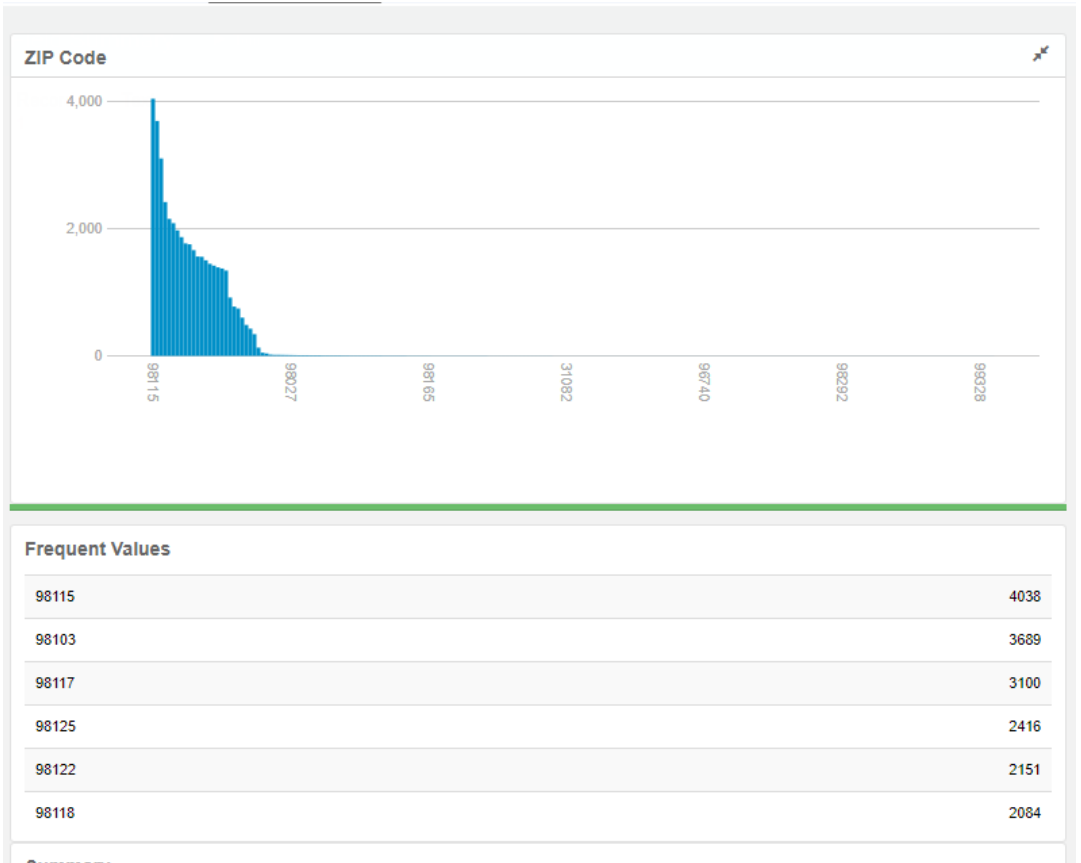
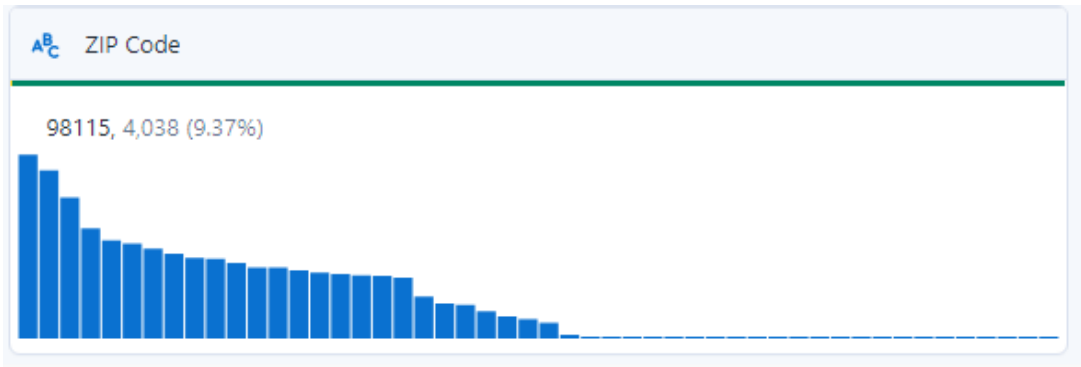




- Most common secondary breed is MIX



- Most pets are owned in the area with ZIP 98115



Basic Profiling correctly displays features of data for all the 7 fields:



3 of 3 Fields ▾ ✓

Cell Viewer ▾ 147 records displayed, 4,020 bytes



Record	FieldName	Name	Value
1	License Issue Date	Name	License Issue Date
2	License Issue Date	Data Type	V_WString
3	License Issue Date	Size	254
4	License Issue Date	Source	Formula: [_CurrentField_]
5	License Issue Date	Description	[Null]
6	License Issue Date	OKs	43086
7	License Issue Date	Nulls	0
8	License Issue Date	Non-Nulls	43086
9	License Issue Date	Blanks	0
10	License Issue Date	Values with Leading Whitespace	0
11	License Issue Date	Values with Trailing Whitespace	0
12	License Issue Date	Values with Both Whitespace	0
13	License Issue Date	Average Length	14.2
14	License Issue Date	Longest Length	17
15	License Issue Date	Longest Value	September 01 2019
16	License Issue Date	Shortest (Non Blank) Length	11
17	License Issue Date	Shortest Value	May 19 2020
18	License Issue Date	Minimum	April 01 2021
19	License Issue Date	Maximum	September 30 2022
20	License Issue Date	Uniques	907
21	License Issue Date	Unique Values	[Null]
22	License Number	Name	License Number
23	License Number	Data Type	V_WString
24	License Number	Size	254
25	License Number	Source	Formula: [_CurrentField_]
26	License Number	Description	[Null]
27	License Number	OKs	43086
28	License Number	Nulls	0
29	License Number	Non-Nulls	43086
30	License Number	Blanks	0
31	License Number	Values with Leading Whitespace	0
32	License Number	Values with Trailing Whitespace	0
33	License Number	Values with Both Whitespace	0
34	License Number	Average Length	6.8
35	License Number	Longest Length	7
36	License Number	Longest Value	5107948
37	License Number	Shortest (Non Blank) Length	4



3 of 3 Fields ▾ ✓

Cell Viewer ▾ 147 records displayed, 4,020 bytes

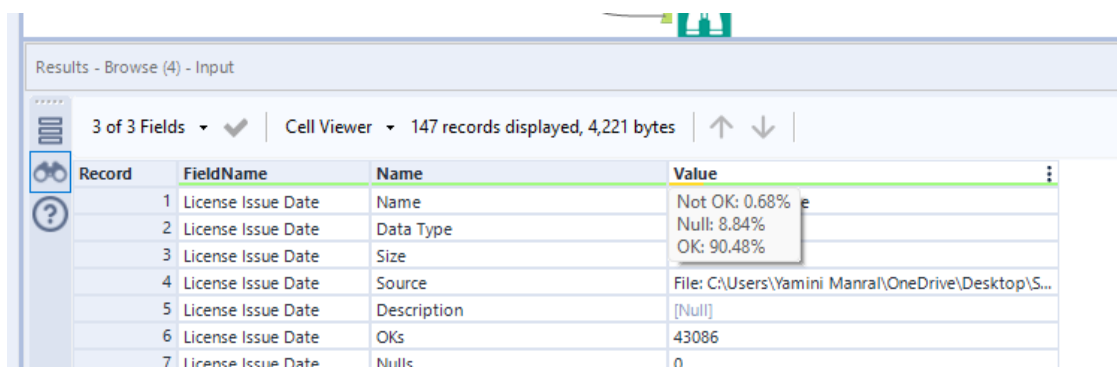


Record	FieldName	Name	Value
56	Animal's Name	Longest Length	50
57	Animal's Name	Longest Value	Nuit Ahathoor Hecate Sapph...
58	Animal's Name	Shortest (Non Blank) Length	1
59	Animal's Name	Shortest Value	Z
60	Animal's Name	Minimum	"Zippy"
61	Animal's Name	Maximum	"Dr." Noah Pickles
62	Animal's Name	Uniques	> 10000
63	Animal's Name	Unique Values	[Null]
64	Species	Name	Species
65	Species	Data Type	V_WString
66	Species	Size	254
67	Species	Source	Formula: [_CurrentField_]
68	Species	Description	[Null]
69	Species	OKs	43086
70	Species	Nulls	0
71	Species	Non-Nulls	43086
72	Species	Blanks	0
73	Species	Values with Leading Whitespace	0
74	Species	Values with Trailing Whitespace	0
75	Species	Values with Both Whitespace	0
76	Species	Average Length	3.0
77	Species	Longest Length	4
78	Species	Longest Value	Goat
79	Species	Shortest (Non Blank) Length	3
80	Species	Shortest Value	Cat
81	Species	Minimum	Cat
82	Species	Maximum	Pig
83	Species	Uniques	4
84	Species	Unique Values	Cat
85	Primary Breed	Name	Primary Breed
86	Primary Breed	Data Type	V_WString
87	Primary Breed	Size	254
88	Primary Breed	Source	Formula: [_CurrentField_]
89	Primary Breed	Description	[Null]
90	Primary Breed	OKs	43086
91	Primary Breed	Nulls	0
92	Primary Breed	Non-Nulls	43086

3 of 3 Fields Cell Viewer 147 records displayed, 4,020 bytes ↑ ↓			
Record	FieldName	Name	Value
107	Secondary Breed	Data Type	V_WString
108	Secondary Breed	Size	254
109	Secondary Breed	Source	Formula: [_CurrentField_]
110	Secondary Breed	Description	[Null]
111	Secondary Breed	OKs	27425
112	Secondary Breed	Nulls	15661
113	Secondary Breed	Non-Nulls	27425
114	Secondary Breed	Blanks	0
115	Secondary Breed	Values with Leading Whitespace	0
116	Secondary Breed	Values with Trailing Whitespace	0
117	Secondary Breed	Values with Both Whitespace	0
118	Secondary Breed	Average Length	8.0
119	Secondary Breed	Longest Length	46
120	Secondary Breed	Longest Value	Mixed Breed, Medium (up to...
121	Secondary Breed	Shortest (Non Blank) Length	3
122	Secondary Breed	Shortest Value	Mix
123	Secondary Breed	Minimum	Abyssinian
124	Secondary Breed	Maximum	York Chocolate
125	Secondary Breed	Uniques	262
126	Secondary Breed	Unique Values	[Null]
127	ZIP Code	Name	ZIP Code
128	ZIP Code	Data Type	V_WString
129	ZIP Code	Size	254
130	ZIP Code	Source	Formula: [_CurrentField_]
131	ZIP Code	Description	[Null]
132	ZIP Code	OKs	42957
133	ZIP Code	Nulls	129
134	ZIP Code	Non-Nulls	42957
135	ZIP Code	Blanks	0
136	ZIP Code	Values with Leading Whitespace	0
137	ZIP Code	Values with Trailing Whitespace	0
138	ZIP Code	Values with Both Whitespace	0
139	ZIP Code	Average Length	5.0
140	ZIP Code	Longest Length	5
141	ZIP Code	Longest Value	98117
142	ZIP Code	Shortest (Non Blank) Length	3
143	ZIP Code	Shortest Value	981

Which further shows our data has been loaded correctly.

- Document what can be done to fix/filter out the bad data (no need to perform any code on this. Analysis is enough for this assignment submission)



Results - Browse (4) - Input

3 of 3 Fields | Cell Viewer | 147 records displayed, 4,221 bytes

Record	FieldName	Name	Value
1	License Issue Date	Name	Not OK: 0.68% Null: 8.84% OK: 90.48%
2	License Issue Date	Data Type	
3	License Issue Date	Size	
4	License Issue Date	Source	File: C:\Users\Yamini Manrai\OneDrive\Desktop\S...
5	License Issue Date	Description	[Null]
6	License Issue Date	OKs	43086
7	License Issue Date	Nulls	0

There are a lot of NULL values in secondary breed column, if we remove it and set it as blank/undefined (a string), it takes its own metrics in data profiling, but the data is cleaner now; but if we don't, then it shows up as a warning as NULL values are not encouraged and does not interrupt with the data profiling results.

4. execution runtime (how long does it take to complete the workflow execution)

Results - Workflow - Messages

All 0 Errors 3 Conv Errors 0 Warnings 2 Messages 6 Files Last Run Configuration

Designer x64	Started running C:\Users\Yamini Manral\OneDrive\Desktop\Summer Semester\DAMG7370 DADABI\Assignments - DADABI\A3\DataProfiling_Seattl
Designer x64	The Designer x64 reported: Allocating requested memory would be more than available physical memory. Reverting to 1824.3 MB of memory.
Input Data (10)	Autodetected CodePage: UTF-8
Input Data (10)	43086 records were read from "C:\Users\Yamini Manral\OneDrive\Desktop\Summer Semester\DAMG7370 DADABI\Assignments - DADABI\A3\Seattle_Pet_Licenses.tsv"
Browse (4)	147 records
Field Summary	Tool #275: Tool #32: Value: "Agnes "Aggie" Snowball Pineapple Clark" was truncated
Field Summary	Tool #275: Tool #32: Value: "Cascade Mountain's Out of a Dream (BRIA)" was truncated
Field Summary	Tool #275: Tool #32: Value: "Houlene "Hula" Elizabeth Honeybee Jacobs" was truncated
Browse (7)	1 records
Browse (8)	1 records
Browse (6)	7 records
Browse (2)	43,086 records
Designer x64	Finished running DataProfiling_SeattlePetLicensing_manral.yxmd in 3.1 seconds with 3 field conversion errors

Browse (4) 147 records

Designer x64 Finished running DataProfiling_SeattlePetLicensing_manral.yxmd in 3.1 seconds with 3 field conversion errors

All 0 Errors 3 Conv Errors 0 Warnings 0 Messages 0 Files

Field Summary (5)	Tool #275: Tool #32: Value: "Agnes "Aggie" Snowball Pineapple Clark" was truncated
Field Summary (5)	Tool #275: Tool #32: Value: "Cascade Mountain's Out of a Dream (BRIA)" was truncated
Field Summary (5)	Tool #275: Tool #32: Value: "Houlene "Hula" Elizabeth Honeybee Jacobs" was truncated

5. number of rows inserted vs number of rows on TSV

What's in this Dataset?

Rows

43.1K

Columns

7

Each row is a

Pet License

Results - Browse (2) - Input

7 of 7 Fields ▾ ✓ Cell Viewer ▾ 43,086 records displayed, 1.7 MB | ⬆ ⬇ | 🔍 Search

Record	License Issue Date	License Number	Animal Name	Species	Primary Breed	Secondary Breed	ZIP Code
1	December 18 2015	S107948	Zen	Cat	Domestic Longhair	Mix	98117
2	June 14 2016	S116503	Misty	Cat	Siberian	[Null]	98117
3	August 04 2016	S119301	Lyra	Cat	Mix	[Null]	98121
4	January 27 2019	8005097	Jolene	Cat	Maine Coon	Mix	98133
5	February 13 2019	962273	Veronica	Cat	Domestic Longhair	[Null]	98107

April 07 2023	8017262	Theo Dog	Shih Tzu Terrier, Yorkshire	98118
April 07 2023	8045573	Bronny Dog	Retriever Mix	98105
April 07 2023	8045574	Red Dog	Retriever Mix	98105
April 07 2023	8045577	Linus Dog	German Shepherd Mix	98146

Ln 43087, Col 58

6. Create 2 new columns

- DI_Created_Date and store current system date and time
- Surrogate key (Record_ID)

Results - Browse (16) - Input

9 of 9 Fields | Cell Viewer | 43,086 records displayed, 1.6 MB | Search | Data | Metadata | Actions

Record	Record_ID	License Issue Date	License Number	Animal's Name	Species	Primary Breed	Secondary Breed	ZIP Code	DI_Created_Date
1	1	December 18 2015	5107948	Zen	Cat	Domestic Longhair	Mix	98117	2023-05-28 15:51:42
2	2	June 14 2016	5116503	Misty	Cat	Siberian	[Null]	98117	2023-05-28 15:51:42
3	3	August 04 2016	5119301	Lyra	Cat	Mix	[Null]	98121	2023-05-28 15:51:42
4	4	January 27 2019	8005097	Jolene	Cat	Maine Coon	Mix	98133	2023-05-28 15:51:42
5	5	February 13 2019	962273	Veronica	Cat	Domestic Longhair	[Null]	98107	2023-05-28 15:51:42
6	6	June 01 2019	208746	Sweetheart	Cat	Domestic Medium Hair	[Null]	98116	2023-05-28 15:51:42
7	7	June 06 2019	79347	Mr Darcy	Cat	Domestic Shorthair	[Null]	98103	2023-05-28 15:51:42
8	8	June 25 2019	8007918	Kali	Cat	Domestic Shorthair	[Null]	98133	2023-05-28 15:51:42
9	9	July 04 2019	209285	Daisy	Cat	Domestic Shorthair	[Null]	98117	2023-05-28 15:51:42
10	10	July 30 2019	5132137	Ada	Cat	American Curl	Mix	98115	2023-05-28 15:51:42
11	11	August 10 2019	5133113	Spider	Cat	LaPerm	[Null]	98115	2023-05-28 15:51:42
12	12	August 16 2019	5130442	Fog	Cat	Domestic Medium Hair	Mix	98106	2023-05-28 15:51:42
13	13	August 23 2019	5133417	Alicia Keys	Cat	Domestic Longhair	[Null]	98133	2023-05-28 15:51:42
14	14	September 01 2019	5133114	Edom	Cat	LaPerm	[Null]	98115	2023-05-28 15:51:42
15	15	September 06 2019	434326	Purcy	Cat	Domestic Shorthair	[Null]	98112	2023-05-28 15:51:42

Formula (14) - Configuration

Output Column | Data Preview

DI_Created_Date | 2023-05-28 17:57:46

`DateTimeNow()`

Data type: V_WString | Size: 1073741823

Record ID (13) - Configuration

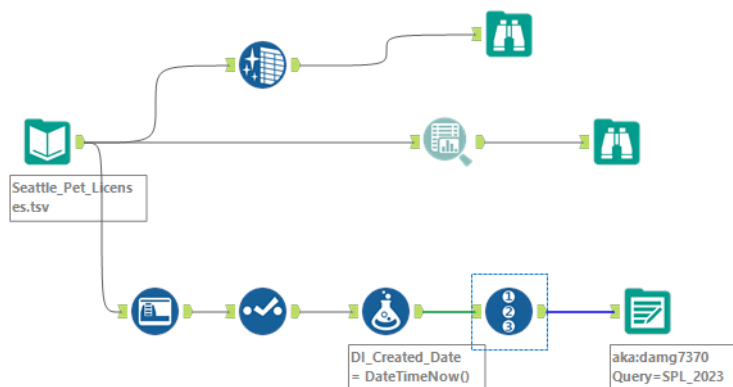
Create New Column

Name: Record_ID | Starting Value: 1

Options

Type: Int32 | Size: 6

Position: First Column



7. Screen shots of workflow execution

Workflow execution screenshot showing the initial data profiling step. The workflow starts with the file **Seattle_Pet_Licenses.tsv** (43,086 records, 6.3MB). It branches into three paths, each leading to a data profiling tool (represented by a magnifying glass icon). The top path shows 147 records (12.9KB). The middle path shows 7 records (4.6KB). The bottom path shows 1 record (12.0KB). The bottom path also shows a total of 105KB.

Results - Workflow - Messages

All 0 Errors 3 Conv Errors 0 Warnings 2 Messages 6 Files

Designer x64 Started running C:\Users\Yamini Manral\OneDrive\Desktop\Summer Semester\DAMG7370 DADAB\Assignments - DADAB\A3\DataProfiling_SeattlePetLicensing_manral.yxmd at 0

Designer x64 The Designer x64 reported: Allocating requested memory would be more than available physical memory. Reverting to 1349.4MB of memory.

Input Data (10) Autodetected Code Page: UTF-8

Input Data (10) 43086 records were read from "C:\Users\Yamini Manral\OneDrive\Desktop\Summer Semester\DAMG7370 DADAB\Assignments - DADAB\A3\Seattle_Pet_Licenses.tsv"

Browse (4) 147 records

Field Summary (5) Tool #275: Tool #32: Value: "Agnes & Aggie; Snowball Pineapple Clark" was truncated

Field Summary (5) Tool #275: Tool #32: Value: "Cascade Mountain & Out of a Dream (BRIA)" was truncated

Field Summary (5) Tool #275: Tool #32: Value: "Houlene & Hula; Elizabeth Honeybee Jacobs" was truncated

Browse (7) 1 records

Browse (8) 1 records

Browse (6) 7 records

Browse (2) 43,086 records

Designer x64 Finished running DataProfiling_SeattlePetLicensing_manral.yxmd in 5.2 seconds with 3 field conversion errors

Workflow execution screenshot showing the final data loading step. The workflow starts with the file **Seattle_Pet_Licenses.tsv** (43,086 records, 6.3MB). It branches into three paths, each leading to a data profiling tool (represented by a magnifying glass icon). The top path shows 147 records (12.9KB). The middle path shows 7 records (4.6KB). The bottom path shows 1 record (12.0KB). The bottom path also shows a total of 105KB.

Results - Workflow - Messages

All 0 Errors 0 Conv Errors 0 Warnings 12 Messages 3 Files

Designer x64 Started running C:\Users\Yamini Manral\OneDrive\Desktop\Summer Semester\DAMG7370 DADAB\Assignments - DADAB\A3\NewRecords_SeattlePetLicensing_manral.yxmd at 0

Designer x64 The Designer x64 reported: Allocating requested memory would be more than available physical memory. Reverting to 1680.4MB of memory.

Input Data (10) Autodetected Code Page: UTF-8

Input Data (10) 43086 records were read from "C:\Users\Yamini Manral\OneDrive\Desktop\Summer Semester\DAMG7370 DADAB\Assignments - DADAB\A3\Seattle_Pet_Licenses.tsv"

Browse (4) 147 records

Auto Field (11) The FieldType of "License Issue Date" changed to: String(17)

Auto Field (11) The FieldType of "License Number" changed to: String(7)

Auto Field (11) The FieldType of "Animal's Name" changed to: V_String(50)

Auto Field (11) The FieldType of "Species" changed to: String(4)

Auto Field (11) The FieldType of "Primary Breed" changed to: V_String(46)

Auto Field (11) The FieldType of "Secondary Breed" changed to: V_String(46)

Auto Field (11) The FieldType of "ZIP Code" changed to: Int32

Output Data (17) Alias translated to odbc:DRIVER={ODBC Driver 17 for SQL Server};DATABASE=Seattle_Pet_License;SERVER=localhost;Trusted_Connection=yes|||SPL_2023

Output Data (17) ODBC Driver version: 03.80

Output Data (17) 43086 records were written to aka:dmg7370|||SPL_2023 (SPL_2023)

Browse (2) 43,086 records

Designer x64 Finished running NewRecords_SeattlePetLicensing_manral.yxmd in 10.2 seconds

- Screen shot from SSMS showing the table creation , its datatypes mapped appropriately and output of count rows on SQL Server in the newly created database.

Table imported in SSMS within Seattle_Pet_Licensing database, within user damg7370, with table name SPL_2023

The screenshot displays the SQL Server Enterprise Manager (SSMS) interface. The Object Explorer on the left shows the hierarchy of the 'localhost (SQL Server 16.0.1050.5 - damg7370)' instance. The 'Databases' folder is expanded, showing 'Seattle_Pet_License' (circled in red) and its 'Tables' folder, which contains 'dbo.SPL_2023' (also circled in red). The main pane shows the results of a query executed successfully, displaying a table with 20 rows and 10 columns. The columns are: Record_ID, License Issue Date, License Number, Animal's Name, Species, Primary Breed, Secondary Breed, ZIP Code, and DI_Created_Date. The data includes various cat breeds and their associated license information.

Record_ID	License Issue Date	License Number	Animal's Name	Species	Primary Breed	Secondary Breed	ZIP Code	DI_Created_Date
1	December 18 2015	S107948	Zen	Cat	Domestic Longhair	Mix	98117	2023-05-28 16:22:01
2	June 14 2016	S116503	Misty	Cat	Siberian	NULL	98117	2023-05-28 16:22:01
3	August 04 2016	S119301	Lyra	Cat	Mix	NULL	98121	2023-05-28 16:22:01
4	January 27 2019	8005097	Jolene	Cat	Maine Coon	Mix	98133	2023-05-28 16:22:01
5	February 13 2019	962273	Veronica	Cat	Domestic Longhair	NULL	98107	2023-05-28 16:22:01
6	June 01 2019	208746	Sweetheart	Cat	Domestic Medium Hair	NULL	98116	2023-05-28 16:22:01
7	June 06 2019	79347	Mr Darcy	Cat	Domestic Shorthair	NULL	98103	2023-05-28 16:22:01
8	June 25 2019	8007918	Kali	Cat	Domestic Shorthair	NULL	98133	2023-05-28 16:22:01
9	July 04 2019	209285	Daisy	Cat	Domestic Shorthair	NULL	98117	2023-05-28 16:22:01
10	July 30 2019	S132137	Ada	Cat	American Curl	Mix	98115	2023-05-28 16:22:01
11	August 10 2019	S133113	Spider	Cat	LaPerm	NULL	98115	2023-05-28 16:22:01
12	August 16 2019	S130442	Fog	Cat	Domestic Medium Hair	Mix	98106	2023-05-28 16:22:01
13	August 23 2019	S133417	Alicia Keys	Cat	Domestic Longhair	NULL	98133	2023-05-28 16:22:01
14	September 01 2019	S133114	Edom	Cat	LaPerm	NULL	98115	2023-05-28 16:22:01
15	September 06 2019	434326	Purcy	Cat	Domestic Shorthair	NULL	98112	2023-05-28 16:22:01
16	October 11 2019	825362	Hank	Cat	Domestic Shorthair	NULL	98116	2023-05-28 16:22:01
17	October 24 2019	346697	Charlotte	Cat	LaPerm	NULL	98105	2023-05-28 16:22:01
18	October 24 2019	346695	Charlie	Cat	LaPerm	NULL	98105	2023-05-28 16:22:01
19	November 01 2019	832211	Frodo	Cat	Domestic Shorthair	NULL	98112	2023-05-28 16:22:01
20	November 01 2019	832698	Molly	Cat	Domestic Medium Hair	NULL	98107	2023-05-28 16:22:01

Query executed successfully.

```
SQLQuery3.sql - lo...nse (damg7370 (57)) SQLQuery2.sql - lo...ter (damg7370 (76)) SQLQuery1.sql - lo...Yamini Manral (74)
/***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [Record_ID]
, [License Issue Date]
, [License Number]
, [Animal's Name]
, [Species]
, [Primary Breed]
, [Secondary Breed]
, [ZIP Code]
, [DI_Created_Date ]
FROM [Seattle_Pet_License].[dbo].[SPL_2023]
```

Total rows:

```
SELECT COUNT(*) AS total_rows
FROM dbo.SPL_2023;
```

150 %

Results Messages

	total_rows
1	43086

Data types:

```
SELECT COLUMN_NAME, DATA_TYPE
FROM INFORMATION_SCHEMA.COLUMNS
WHERE TABLE_NAME = 'SPL_2023';
```

150 %

Results Messages

	COLUMN_NAME	DATA_TYPE
1	Record_ID	int
2	License Issue Date	char
3	License Number	char
4	Animal's Name	nvarchar
5	Species	char
6	Primary Breed	varchar
7	Secondary Breed	varchar
8	ZIP Code	int
9	DI_Created_Date	nvarchar