

# Final SIP

Ally Grishko, Lillian Kurz, Isaiah Sarria, Randy Koliha



```
milar_streets
takes an arbitrary value and a data series' column. It creates an empty list. A second value is created that becomes
ts_list = []
df["Street"]:
treets = check_similar_streets(value, df["Street"])
treets_list.append(similar_streets)
treets"] = similar_streets_list
tekankemptyklistktokstorekourkresultskfromkthekfunctionkwekcreatedklater.kRemember,kourkfunctionktakeskankarbitraryk
e-data-column.×So,-we×create-that×value×as×it×iterates-through×the-'Street'-column×to-get-compared×to-other_value
ar_streets_id(value, series, customer_series):
treets·=·[]
her_value-in-enumerate(series):
lue-!=-other_value-and-(value-in-other_value-or-other_value-in-value):
imilar_streets.append(customer_series[i])
value == other_value:
imilar_streets.append(customer_series[i])
milar_streets
to match the similar names we found with their Customer IDs. This function takes an arbitrary value, and two datas
be what we want to match the Customer IDs to, and the second series will be the Customer IDs. The function will c
arbirary:values:in:an:enumerated:series.-An-enumerated:series:tells:us:the-index-and:value:of:each:row/account-in-a
```

is similar to other values like we did in the previous function created. For only those similar values, when the con-

exes in the Customer column so that they could be matched to the ID.

imilar streets.append(other value)

imilar streets.append(other value)

value == other\_value:

# Information Governance Project: Customer Duplicates



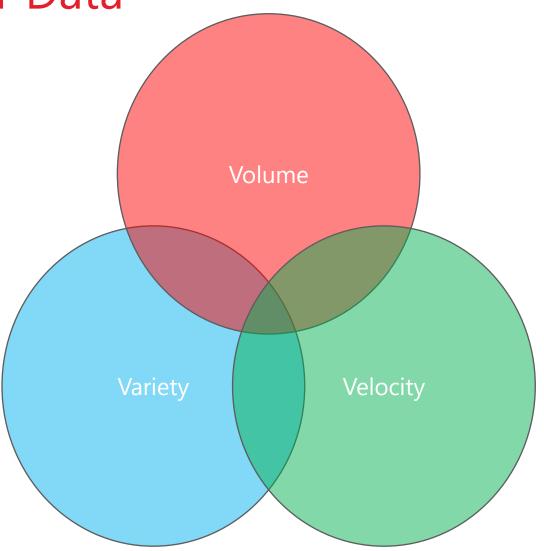








The Customer Data





# **Data Variety**











BUSINESS SUPPRESSION ACCOUNT DETAILS REASON



# **Example Problems**

# Inconsistent Naming Practices

Redundancies

**Incorrect Suppression** 

	Customer	Name	Street
0	1	Mickey Mouse's BBQ	863 Disney Street
1	2	Mickey's BBQ	353 Disney St
2	3	Mario Market	863 Luigi Lane
3	4	Mario Bros Market	863 Luigi Ln

	Customer	Name	Street	Suppression Reason
0	1	Bugs Bunny Brewery	1563 Looney Way	
1	2	Bugs Bunny Brewery	1563 Looney Way	
2	3	Bugs Bunny Brewery	1563 Looney Way	S

Customer	Suppression Reason	Equipment?	Secondary Volume
500314783		N	0
600396599	S	Υ	10

#### **Customer Duplicate Removal**

#### **Problem Statement**

Duplicate customer accounts are causing operational inefficiencies.

#### **Commercial Capabilities**

2.4.0 Incentives

5.1.0 Equipment Management

#### **Advantages**

Trusted data for associates

Better equipment management

Decrease costs of data maintenance



#### **Methods**



Pulling and Importing

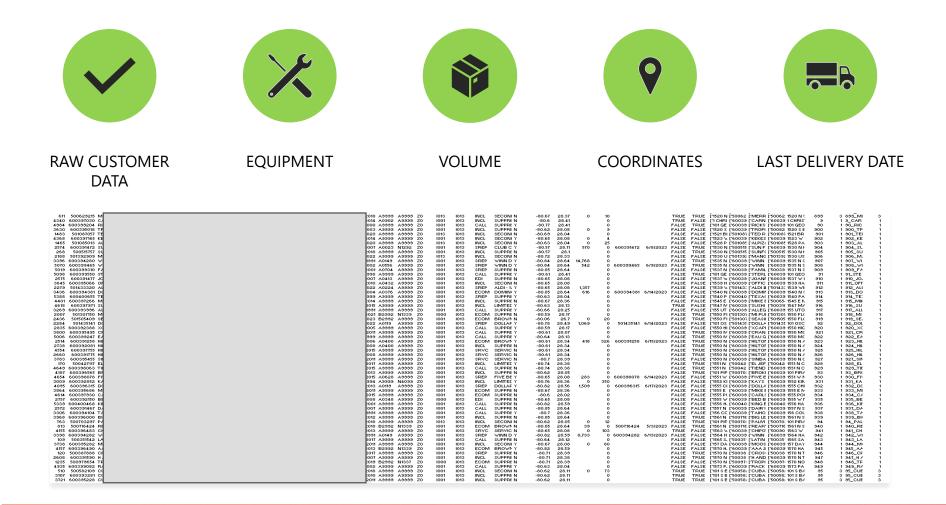
Similarities and Exact Matches

Grouping

Conditioning



### **Pulling and Importing**





#### **Similarities and Exact Matches**

Isaiah's Ice Cream Igloo ≠ Isaiah's Ice Igloo

Customer	Name	Similar Names	Similar Names ID
1128	Isaiah's Igloo	<ul> <li>Isaiah's</li> <li>Igloo</li> <li>Isaiah's</li> <li>Igloo</li> <li>Isaiah's Ice</li> <li>Igloo</li> </ul>	<ul><li>1128</li><li>1999</li><li>1691</li></ul>

0927 Randy Rd ≠ 0927 Randy Road



# Grouping

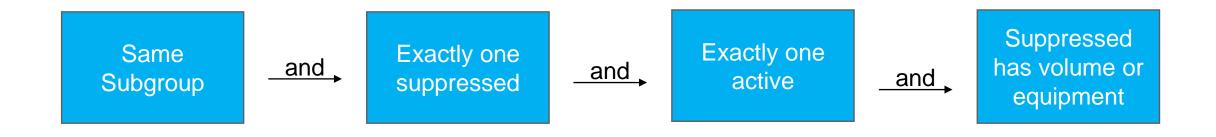
Customer	Name	Street
1128	Isaiah's Igloo	<mark>092</mark> 7 Randy E Rd
1999	Isaiah's Igloo	<mark>092</mark> 7 Randy Rd

Customer	Name	Street	Combined	Group	Subgroup
1128	Isaiah's Igloo	<mark>092</mark> 7 Randy E Rd	Isaiah's Igloo 0927 Randy Rd	305	305_ISA
1999	Isaiah's Igloo	<mark>092</mark> 7 Randy Rd	Isaiah's Igloo 0927 Randy Rd	305	305_ISA

## Nuances? Then why do it?



# Conditioning



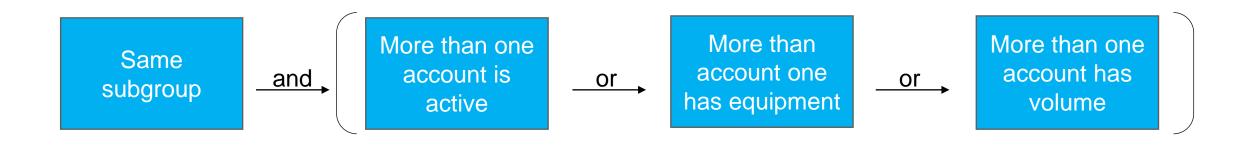
	Suppression Reason	Equipment?	Subgroup	# of Subgroup Members	Secondary Volume	action
15		N	1081_SUN	2	0	yes
1222	S	Y	1081_SUN	2	10	yes



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# **Conditioning**



	Name	Street	Subgroup	Suppression Reason	Equipment?	Secondary Volume	action
43	CENTER	WAY	221		N	0	duped
44	CENTER	WAY	221		N	0	duped
45	CENTER	'AY E	221	S	N	0	duped



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#### What do we do with the work?

**The Automation Algorithm** 

Feed in all sales office customer data

Import the created algorithm

Schedule for automation

Act on identified anomalies









# Thank you. Questions?



