



Identity Resolution

Training and Best Practices

Contents



- What is IDR
- How to set up your data
- Running an IDR pipeline
- Interpreting results

What is IDR?

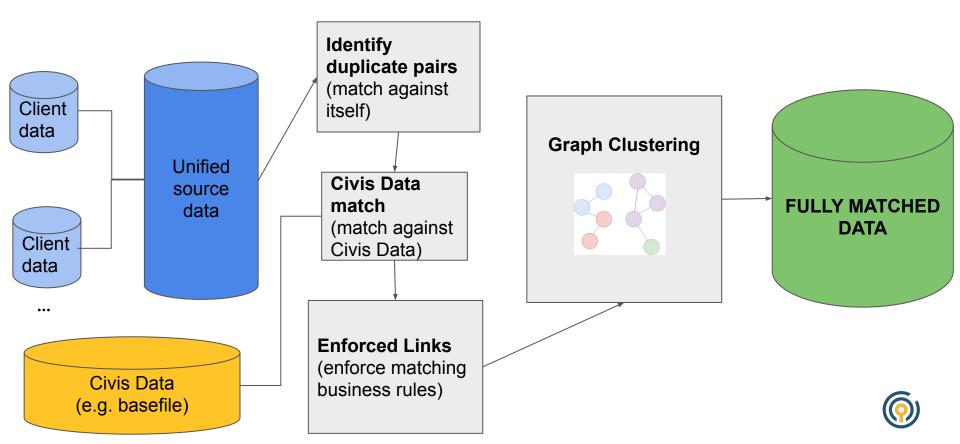


1. Civis Identity Resolution (IDR) enables users to group together person records within and across multiple data sources to provide a comprehensive and deduplicated view of the individuals they care about.

2. IDR uses scalable distributed computing tools to deliver results efficiently and reliably for datasets of tens of millions of records or more.

3. To determine whether different person records correspond to the same individual, Civis Identity Resolution uses a precise statistical model that has been adjusted based on feedback from dozens of customers in multiple industries over a period of years.

Core IDR Pipeline



Preparing Your Data





Workflow

Chain related jobs that depend on one another

all MODELS

X LABS

ENHANCEMENTS

Address Correction

Standardize and update mailing addresses

Basefile Delivery Tool

Deliver Civis Data to your cluster

Civis Data Match

Match records from your data to

Civia data

More Enhancements...

IDENTITY RESOLUTION

☑ IDENTITY RESOLUTION (DEMO)

CREATIVE FOCUS (POLITICAL DEMO)





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atl	WORKFI Workflov Chain rela one anoth MODELS LABS	v ated jobs th ner	at depend o	Address Correction Standardize and update mailing addresses Basefile Delivery Tool Deliver Civis Data to your cluster Civis Data Match Match records from your data to Civis data More Enhancements	 ☑ IDENTITY RESOLUTION ☑ IDENTITY RESOLUTION (DEMO) ☑ CREATIVE FOCUS (POLITICAL DEMO)



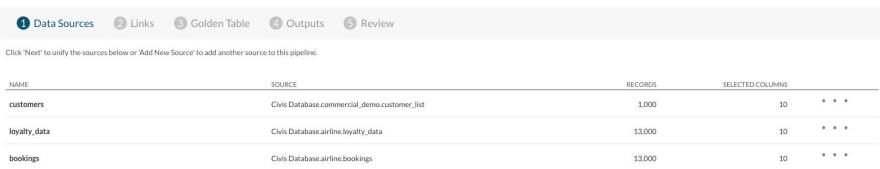




Adding Sources



Demo Pipeline 🧪



+ Add New Source

Add Match Target

Civis Data (quarterly commercial) X

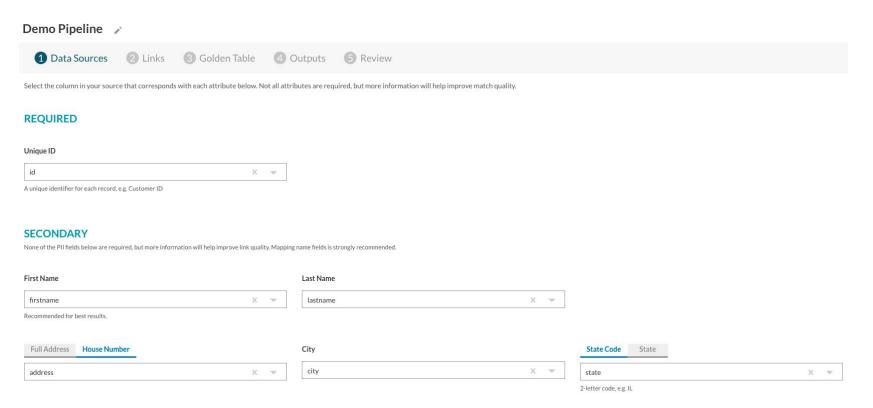
Match Target to match against your sources

Cancel

Next







Adding Links



Demo Pipeline 📝



LINK SCORE THRESHOLD

Choose the minimum score you want to use to link records.

Score Threshold

0.8

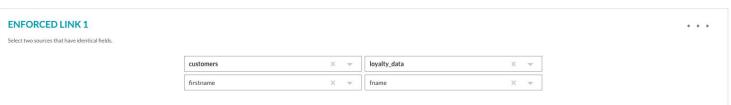
Must be between 0.5 (lowest confidence) and 1 (highest confidence).

ENFORCED LINKS (OPTIONAL)

You may already know fields that match exactly across your data sources. Select those columns below to ensure that records that match will automatically get a score of 1.

If you identify multiple links between the same two sources, only one pair has to match for the records to be linked.





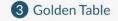




Demo Pipeline 📝











Create a single golden record for each resolved ID using the strongest personal identifiers from its linked records. Tell us how the values for each field should be chosen below. If you don't want to create a Golden Table, leave the Golden Table fields on the Outputs page blank.

FIELDS

First Name

Middle Name

Last Name

Address

Email

Phone Number

GOLDEN TABLE RULES

The Automatic option will choose a value based on:

- Frequency (how often it shows across records)
- Formatting (how valid the particular data appears, depending on the field)

First Name

How should we choose which first name to use?

Automatic ②

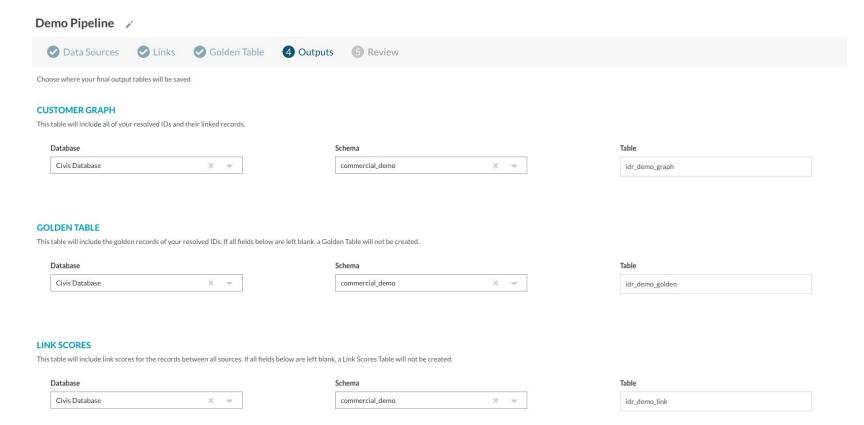
O By Preferred Source

Middle Name

How should we choose which middle name to use?



Configure Output Destinations



Interpreting Results: Customer Graph

< Back to List of Pipelines **Demo Pipeline: Run Summary Edit Pipeline** Run Date 12/10/2021 11:38am Run ID: 365824439 Threshold: 0.8 More Run Details V TOTAL SOURCE RECORDS SINGLE IDS @ DEDUPLICATED IDS () RESOLVED IDS 🔞 = 27,000 1.078 2,122 3,200 Records Per Resolved ID Sample Records Expand Cluster Query Showing 100 sample records for up to 100 sample resolved IDs. Some resolved ID groups may be truncated. Query Code 💌 C Load another 100 records RESOLVED ID SOURCE SOURCE FIRST NAME MIDDLE NAME LAST NAME **EMAIL** PHONE 0 FULL ADDRESS HOUSE STREET UNIT STATE CODE CITY ZIP PRIMARY KEY NUMBER IA-Iz7j7nqsumwt Civis Data Y2945485515 7855 BUZZBOYN@ 1211 W MARSHALLT Iz7j7nqsumwt bookings 30942939 ROBERT NUSBAUM CROSSPATHS. 6417522796 STATE ST APT IA 50158 ahnr OWN NET 204 BUZZBOYN@ 1211 W MARSHALLT NUSBAUM CROSSPATHS. 6417522796 STATE ST APT IA 50158 bookings 30942939 ROBERT NET 204 BUZZBOYN@ 1211 W MARSHALLT loyalty_data CROSSPATHS. 6417522796 STATE ST APT IA 50158 30942939 ROBERT NUSBAUM ahnr NET 204

Interpreting Results: Golden Table

Name	Туре
resolved_id distkey sortkey	varchar(1024)
first_name	varchar(4096)
middle_name	varchar(4096)
last_name	varchar(4096)
house_number	varchar(4096)
street	varchar(4096)
unit	varchar(4096)
city	varchar(4096)
state_code	varchar(4096)
zip	varchar(4096)
email	varchar(4096)
phone	varchar(4096)

Interpreting Results: Link Scores

Name	Type
source_name	varchar(1024
source_primary_key distkey sortkey	varchar(1024
match_name	varchar(1024
match_primary_key	varchar(1024
score	double

Putting your Pipeline into a Workflow





Thank you!

If you have any questions, please contact Civis Client Success at support@civisanalytics.com.