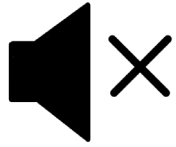


Sep 27th, 2022

C360 SaaS - Automate Match Strategy and Survivorship

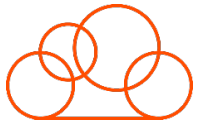
- **Kamal Abrol**, Principal Solutions Architect, CSM

Housekeeping Tips



- Today's Webinar is scheduled for **1 hour**
- The session will include a webcast and then your questions will be answered live at the end of the presentation
- All dial-in participants will be muted to enable the speakers to present without interruption
- Questions can be submitted to "All Panelists" via the **Q&A option** and we will respond at the end of the presentation
- The webinar is **being recorded** and will be available on our **INFASupport YouTube channel** and **Success Portal** - where you can download the **slide deck** for the presentation. The link to the recording will be emailed as well.
- Please take time to complete the **post-webinar survey** and provide your feedback and suggestions for upcoming topics.

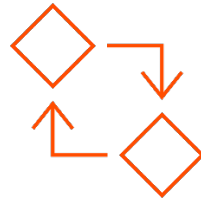
Feature Rich Success Portal



Bootstrap trial and
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Enriched Customer
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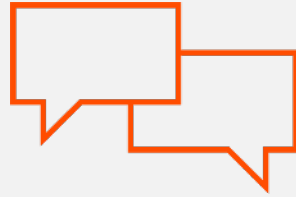
Tailored training and
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recommendations

More Information



Success Portal

<https://success.informatica.com>



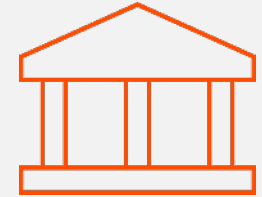
Communities & Support

<https://network.informatica.com>



Documentation

<https://docs.informatica.com>



University

<https://www.informatica.com/in/services-and-training/informatica-university.html>

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Statements made today are based on currently available information, which is subject to change. Such statements should not be relied upon as a representation, warranty or commitment to deliver specific products or functionality in the future.

Agenda

Why Matching?

Deduplication Strategy – Usage Recommendation

Match Services-MDM SaaS

Survivorship & Conflict Resolution

Downgrade Trust Score -Validation Importance

Match Merge job Flow

Generate Merge Task Workflow

Live Demo-Ingress + Match + Merge

Why Matching?

John Smith and John Smyth

- Same records – with spelling variations, misspellings, transpositions, omissions, and phonetic variations
 - Duplications
- *Configure the match and merge process to identify and resolve duplicate records.*
- *The match and merge process configuration together constitutes the match model.*
- *Based on the outcome of the match process and the merge configuration, the records are either:*
 - ***automatically merged***
 - ***queued for manual merge by a data steward***
 - ***skipped as not a candidate for merge***

SaaS Deduplication Strategy – Usage Recommendation

Match Strategy

Match Strategy	Description	Examples
Exact	A deterministic match that includes records containing identical values. Configure the exact match strategy if the quality of the data is good.	Use the exact match strategy if at least some fields contain unique data, such as IDs, postal codes, and industry codes.
Fuzzy	A probabilistic match that includes variations in data patterns, such as spelling variations, misspellings, transpositions, omissions, and phonetic variations.	Use the fuzzy match strategy to match records based on fields that contain addresses, geographic coordinates, and names of people or organizations.

Merge Strategy

➤ **AUTO**

Usage Recommendation

- Use the automated merge strategy for declarative rules that are based on unique identifier fields, such as social security number or Passport number.
- Two people cannot have the same Social Security or Passport number, so you do not have to manually review the records.

➤ **Threshold based**

Available only when you select the fuzzy match strategy. • Use the threshold-based merge strategy for any field. • Based on the match score of the record pairs, the match and merge process determines whether the result is automated, manual, or skipped merge.

➤ **Manual**

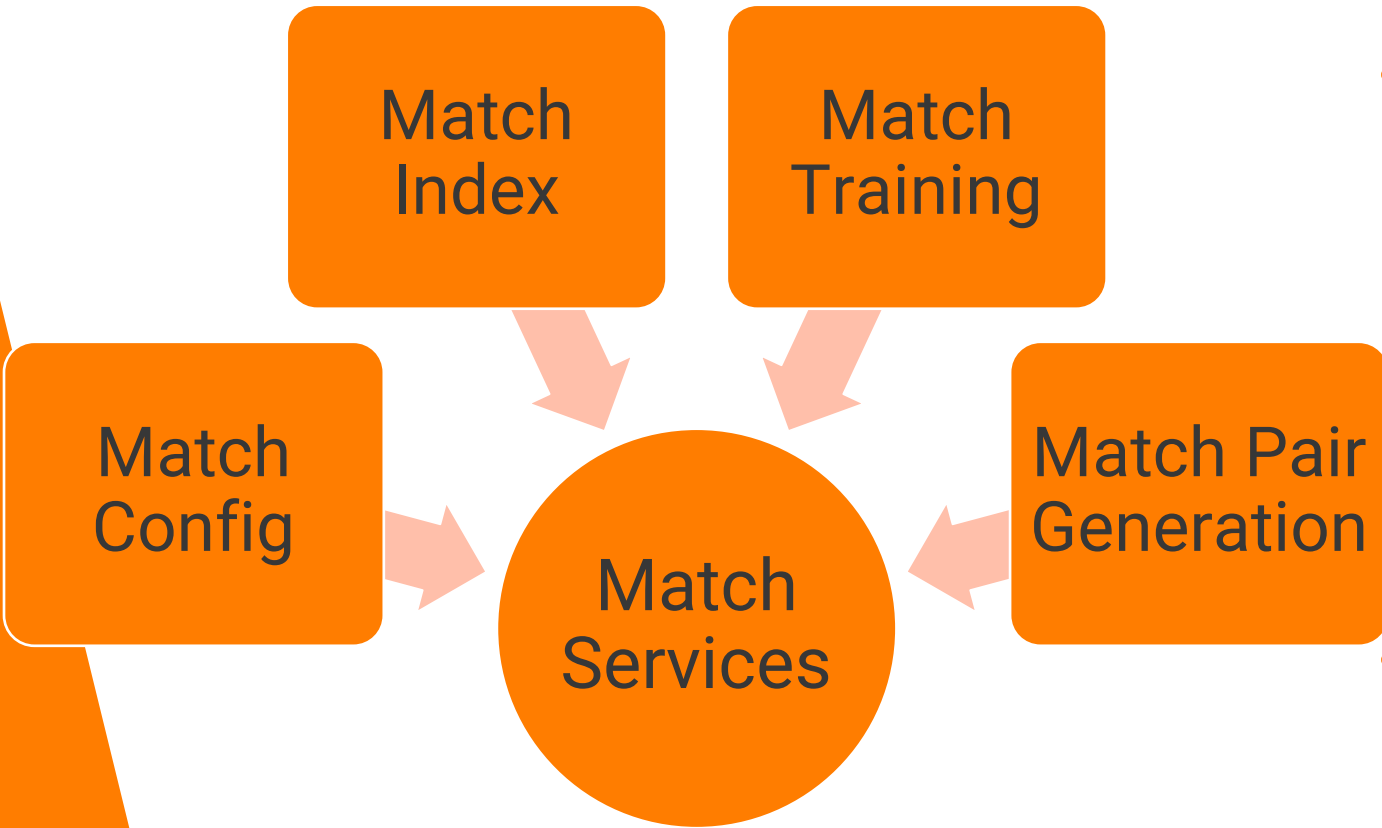
Usage Recommendation

- Use the manual merge strategy for declarative rules that are based on fields, such as the address field.
- Multiple family members can share the same address and the records cannot be definite matches
- You need to manually review the records to confirm whether these are duplicate records

➤ **SKIP**

The records in the pairs are not matched against each other if their match scores fall within the range set for the merge threshold for skipping merge

Match Services-MDM SaaS



- **Match Config:**

- Provides an interface to configure match models i.e candidate selection criteria, DL and AI rules or machine learning model

- **Match Index:**

- Generates name3 keys/tokens for user data

- **Match Pair Generation:**

- Deduplicates records by creating match pairs
- (which in turn are merged for generating golden records)

Match Index Service

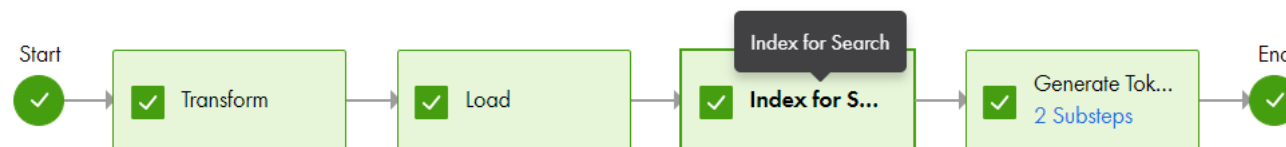


MATCH_DIRTY-
Date Ingested

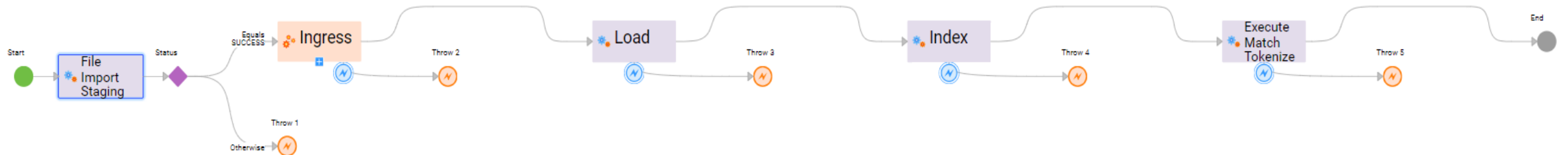
Index Configuration

MATCH_INDEXED-
Post generate Tokenization step

Ingress Job flow- Data getting indexed



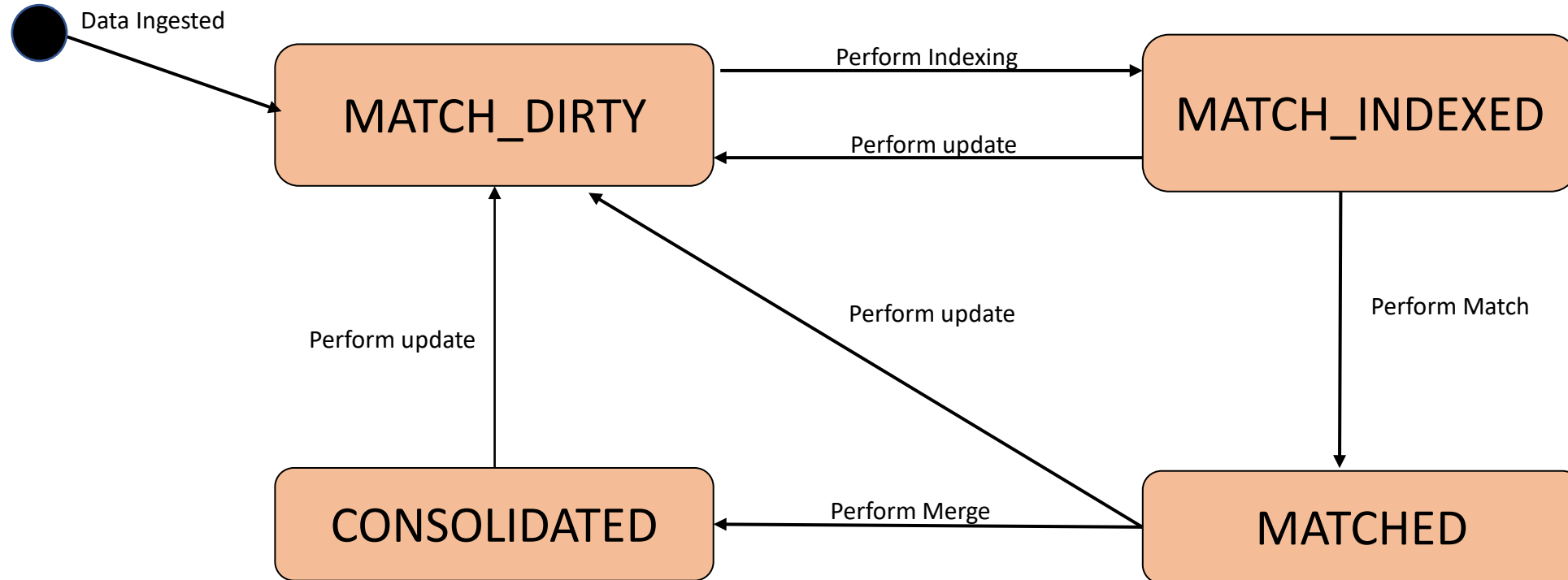
File Import Flow Diagram





Ingress
DEMO

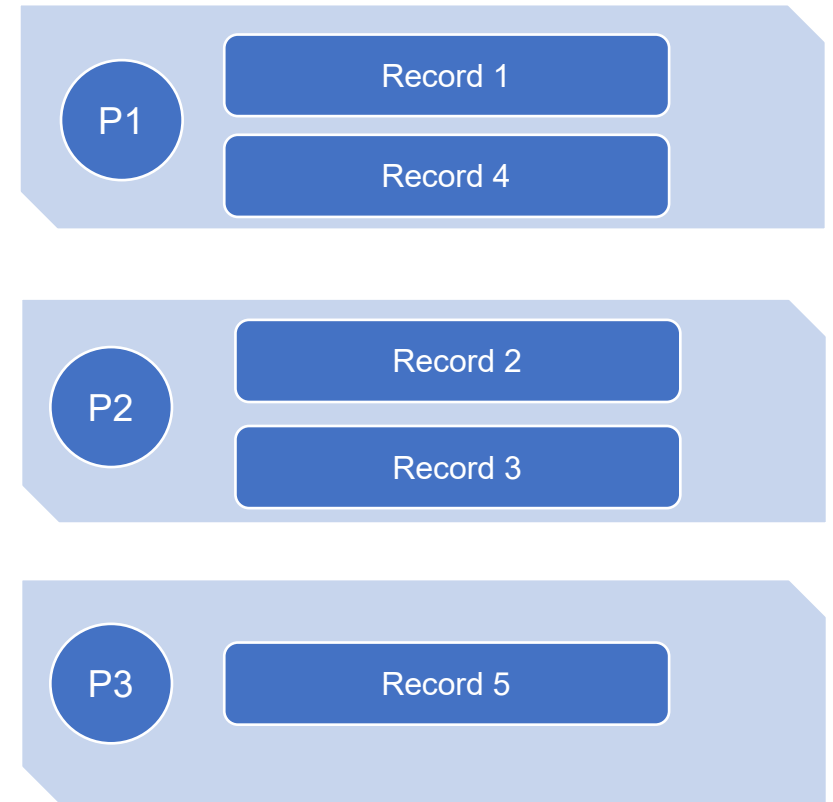
XREF State Management



Match Pair Service



MATCH_INDEXED



MATCHED

Survivorship- Master creation from multiple matching pairs

- Which records survive?
- Which source systems are most trusted?
- Though highly trusted, what are the basic validations that need to be done on the attributes coming from those sources?
- If the records are not valid, how do you downgrade the trust scores?

- **Field Level Survivorship**

- Compete by each entry

- **Block Level Survivorship**

- Compete the whole underline group

- **Document/root Level survivorship**

- The whole xref overwrites the master

Field	Xref X1	Xref X2	Master M1 (if X1 name wins) (if X2 age wins)
Name	Tom	Tommy	Tom
Age	20	21	21

Block	Xref X1	Xref X2	Master M1 (if X1 address wins)
Address.city	Toronto	Vancouver	Toronto
Address.province	ON	BC	ON

❖ Survivorship Configuration-

Define attribute/field specific source system ranking and decay configuration

❖ How Survivorship Configuration Works

- ✓ If survivorship configuration do not exists
 - TS will always be 0.
- ✓ If survivorship configuration exists
 - The first rule executed will be the source ranking rule
 - If another rule is configured for the xref element, it will be executed and the calculated score will become the new TS

❖ When trust calculation triggered ?

- ✓ Every time an Xref is Upsert both ways batch job as well as Patch update (From BUI)
- ✓ When a manual override is performed (Survivorship Override)
- ✓ The Data Quality rules can affect the trust score by downgrading with a calculated percentage (DTSP).

Survivorship -Conflict resolution

- The source ranking rule will act as a tie break rule in case of the multiple records from different source systems with the same TS.
- In case of multiple XREFS with the same TS from the same source system the value from the XREF with the newer LUD will survive.
- In the case there are multiple Xrefs with the same TS from the same source system with the same LUD, the record with the highest mongo id (_id) will survive
- There can be a tie in the mongo id. This can happen when picking a winning element in a multivalue field, the highest 'element _id' will be the one that will survive for this case.

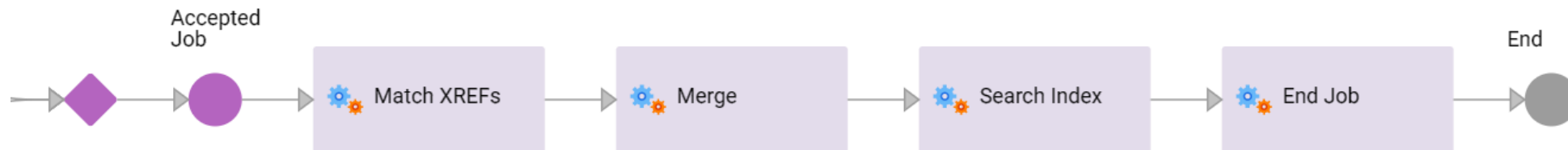
Downgrade Trust Score -Validation Importance

Merge Scenario

Case: A

- Informatica Customer 360 is the most trusted source – Rank 1.
- CRM is the next trusted source – Rank 2.
- A record coming from Informatica Customer 360 is NULL, whereas there is a valid record coming from CRM. Which value will be considered for the Match?
 - Obviously, CRM – though less trusted.
 - To avoid such a situation a DQ Validation rule is a MUST!
 - When validation fails, you can downgrade the trust score of the field, and that helps determining the confidence level on the source data.

Match Merge Flow Diagram



Manual Review Workflow

Generate Merge Task Flow-

Configure the business event

- For creating review task, we need to configure a system generated business event where we will select the approver here, who will receive the tasks in workflow inbox to review the pairs and can perform appropriate action on them.

Run the generate merge task job for manual reviews

- We need to configure and run the generate merge task job which creates the task in approver's inbox based on the match outcome of match and merge job.

merge_be_event

Event **Workflow Tasks** Workflow Properties

Select the workflow you want and configure the applicable user roles.

Workflow

Name:* MDM One Step Approval

Final Review

Approvers:* Customer 360 Data Steward

gen-merge_task_be

Process:* MDMGenerateMergeTasks

Description: Could not load process flow

Task Limit:* 50

Assets

Name	Type
Banking_be	BusinessEntity

Login as reviewer and act upon the merge task

The screenshot shows the Informatica Customer 360 interface. The top navigation bar includes the Informatica logo, "Customer 360", a dropdown menu for "allkeytypes", a search bar, and a "storagecollection" dropdown. The left sidebar contains navigation options: New, Home, Search, File Import, Workflow Inbox (selected), Hierarchies, My Jobs, and Reports.

Workflow Inbox

Quick Filters | Open Tasks (4941)

Task ID	Title	Task	Priority	Status	Owner	Creator
753995964712644608	c360.organization Organization Your Rx Pharmacy	Final Review	Medium	Unassigned		storagecollection
753995960602226688	c360.organization Organization Dearborn County Hospital	Final Review	Medium	In Progress	nrajsteward1	storagecollection
753995958559600640	c360.organization Organization Dearborn County Hospital	Final Review	Medium	Unassigned		storagecollection
753995956089155584	c360.organization Organization Dearborn County Hospital	Final Review	Medium	Unassigned		storagecollection

1 - 100 of 4941 Items | Page 1 of 50 | Items Per Page: 100

Final Review | c360.organization Organization Dearborn County Hospital | [Approve](#) | [Reject](#) | [Release](#) | [Send Back](#)

Task: Final Review | Assigned To: nrajsteward1 | Due By: 09/19/2022
Status: In Progress | Created By: storagecollection | Created On: 09/12/2022
Priority: Medium | Modified By: nrajsteward1 | Modified On: 09/12/2022

Description

High-Level Steps to Configure Match and Merge

- 1 Configure Source Systems from which you onboard data
- 2 Configure Survivorship – Set Trust Levels + Decay Rules
- 3 Create Validation rules to downgrade trust scores
- 4 Create Declarative Match rules
- 5 Run Match and Merge jobs
- 6 For Manual Merge, create Business Events to run workflows



Match Merge

DEMO

Questions?



Kamal Abrol-Speaker
Dilip Yeluguri -Panelist
Customer Success Architect

Thank You

References

- MDM Infa University-<https://now.informatica.com/Custom-360-SaaS-for-Business-Users-Instructor-Led.html>
- <https://infawiki.informatica.com/>

Pre steps Best Practices- Matching & Merging

- Analyze the data onboarded and check if matching and merging duplicate data is required.
- Analyze the attributes and quality of the data that you want to consider for the match and merge process.
- Determine the size of the data set, which could impact the performance of the match and merge process.
- Determine if you can opt Automated or a manual merge.
- **Merge Usage Recommendation**
 - ✓ Use the automated merge strategy for declarative rules that are based on unique identifier fields, such as social security number or Passport number.
 - ✓ Use the manual merge strategy for declarative rules that are based on fields, such as the address field.
 - ✓ Multiple family members can share the same address and the records cannot be definite matches.
- Decide the Declarative match rules that best suits the data set.
- Understand the business objectives and requirements for matching and merging duplicate data.
- Determine the match population, which improves match accuracy by accommodating variations and errors that are likely to appear in data for a particular population.