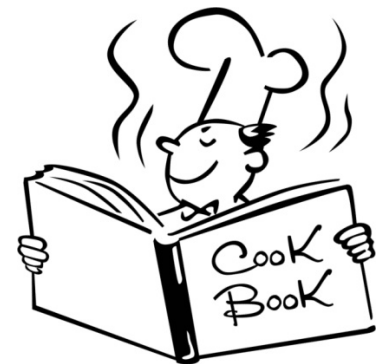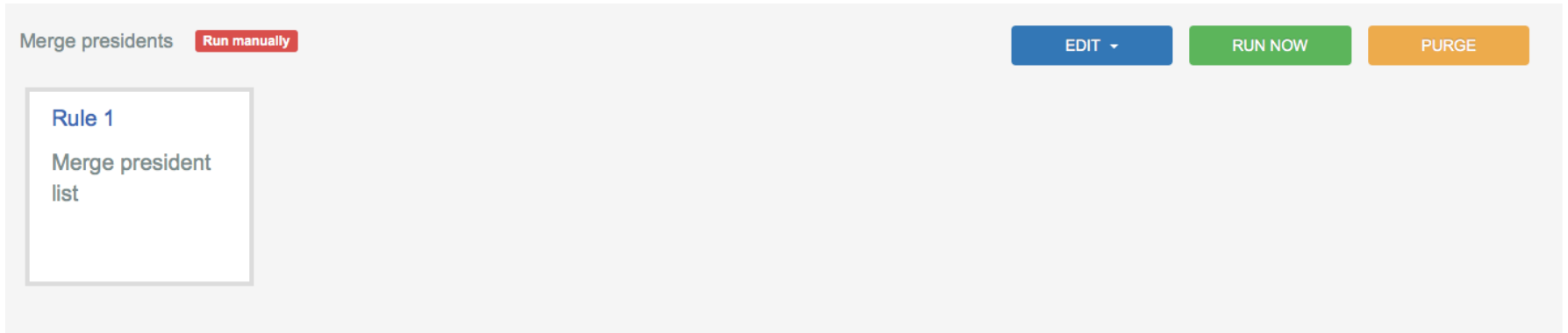# Merge Lists

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Cook Book Series

Recipe Overview

This is a recipe for merging two lists by matching on a common attribute

This is ideal for:
- Merging two large lists
- Appending one large primary list with data from a reference / look-up list
- Merging data from two different sources

Sample Data: Inputs

Data set #1 - List of presidents with name and sequence number

Last Name	First Name	Email		ID
Adams	John	jadams@president2.com		2
Adams	John Quincy	jqa@president6.com		6
Harrison	William Henry	whharrison@president9.com		9
Jackson	Andrew	ajackson@president7.com		7
Jefferson	Thomas	thomas.jefferson@president3.com		3
Madison	James	jm@president4.com		4
Monroe	James	monroe@president5.com		5
Tyler	John	john.tyler@president10.com		10
Van Buren	Martin	martin.vanburen@president8.com		8
Washington	Georege	george@president1.com		1

Mapping on a common attribute:

Email
(Yes, email ☺)

Data set #2 - List of presidents' home state, party, and year term started

Party	Email	State	Start of Term
Democratic	ajackson@president7.com	Tennessee	1829
Democratic	martin.vanburen@president8.com	New York	1837
Democratic-Republican	thomas.jefferson@president3.com	Virginia	1801
Democratic-Republican	jm@president4.com	Virginia	1809
Democratic-Republican	monroe@president5.com	Virginia	1817
Democratic-Republican	jqa@president6.com	Massachusetts	1825
Federalist	jadams@president2.com	Massachusetts	1797
Independent	george@president1.com	Virginia	1789
Whig	john.tyler@president10.com	Virginia	1841
Whig	whharrison@president9.com	Ohio	1841

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Rule 1: Append data source #2 to #1

Rule Detail

Rule name *
Merge president list

Rule description
Rule description

Rule template * Need help picking a templates?
Append

IF this happens

Input Data Sources
President Names

SELECT DATA

All new data

THEN take these actions

Output Data Sources
Rule Output - Merge president list

Append data

Configuration :

Append data from | President State Term | to the input data source

by matching values from | Email | to | Email |

Using match method | Fuzzy match |

Append these attributes :

From	To	ACTION ▾
Party	Party	✖
Start of Term	Start of Term	✖
State	State	✖

Data Source 1
Name + ID

Data Source 2
Party + Date + State

Matching attribute: email

Attributes to append from #2 to #1

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To add a new mapping between the two data sources

To add a new attribute to the primary data source

To download output data, click on the DOWNLOAD button on the Search screen

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Sample Data: Output

Select data from [Rule Output - Merge president list ▾] where   [DOWNLOAD] [ADD CRITERIA]

[Email ▾] [contains ▾] [• × Add value]

10 records found, grouped by OPAutoDate   [SECOND MINUTE HOUR DAY MONTH YEAR]

```
10.0
 7.5
 5.0
 2.5
 0.0
```
August 10th 2015

[TABLE ROWS ▾] [TABLE COLUMNS]

[ID ×][First Name ×][Last Name ×][Start of Term ×][State ×][Party ×][Email ×]

ID	First Name	Last Name	Start of Term	State	Party	Email
2	John	Adams	1797	Massachusetts	Federalist	jadams@president2.com
7	Andrew	Jackson	1829	Tennessee	Democratic	ajackson@president7.com
8	Martin	Van Buren	1837	New York	Democratic	martin.vanburen@president8.com
3	Thomas	Jefferson	1801	Virginia	Democratic-Republican	thomas.jefferson@president3.com
1	Georege	Washington	1789	Virginia	Independent	george@president1.com
6	John Quincy	Adams	1825	Massachusetts	Democratic-Republican	jqa@president6.com
9	William Henry	Harrison	1841	Ohio	Whig	whharrison@president9.com
4	James	Madison	1809	Virginia	Democratic-Republican	jm@president4.com
5	James	Monroe	1817	Virginia	Democratic-Republican	monroe@president5.com
10	John	Tyler	1841	Virginia	Whig	john.tyler@president10.com

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Recipe Review

Want to do more? Try the following on your own:

- Merge more than two lists by adding more append rules to the Data Pipeline
- Normalize and clean the aggregated list

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Data Automation For Business Users

Rules

Sharing

Analytics
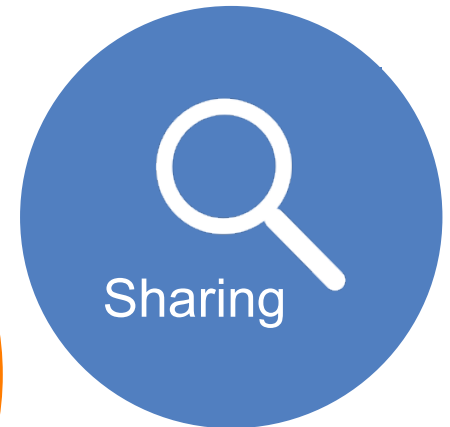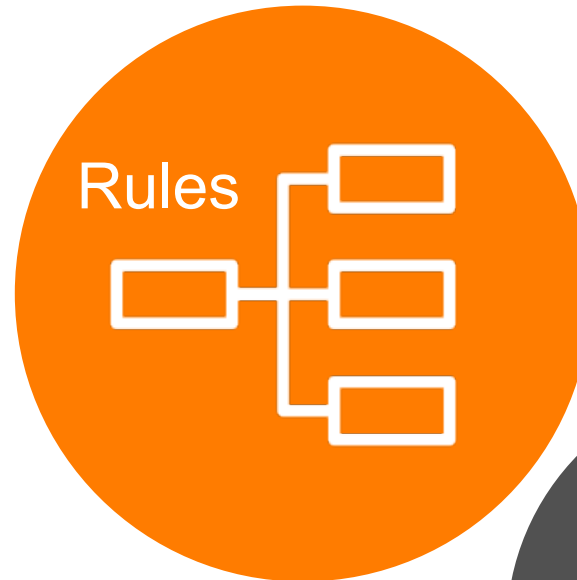
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