

# Extract Author Citation Network

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## Description

Extracts the author citation network from an ISI database.

Each Author from each document in the input database is represented by a node. An edge is drawn between the nodes for two Authors if and only if one of the Authors authored a Document that cited a Document that the other Author authored.

## Analyses

The output network will include the following data and metadata:

- Node (Author)
  - All data from the [People Table](#).
  - A generated prettified label for identifying this Author.
  - Number of documents authored in your dataset.
- Directed Edge (Citation)
  - The number of times the target node Author cited the source node Author.
  - Publication year of the earliest citing document.

## Usage Hints

Load an ISI file into the tool, then create a database from it using [the ISI database loader](#).

It is strongly recommended that the database be cleaned before extracting any citation networks from it.

For a quick analysis of a small dataset you may wish to [merge together Author entities with identical names](#). For a scientifically sound analysis of a larger dataset, you can [find Author entity merging suggestions](#) (or [manually set your own merging orders from scratch](#)) and [perform the merge](#).

Then, you will probably want to [merge together Source entities according to recognized variants](#).

Finally, you must [match References up to Documents in your dataset](#) (there are no citations to analyze, otherwise).

## Implementation Details

The specific query run by the tool can be found in the [source code](#).

## Links

- [Load ISI File into Database](#)
- [Merge Identical ISI People](#)
- [Suggest ISI People Merges](#)
- [Create Merging Table](#)
- [Merge Entities](#)
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