

# Extract Author Citation Network

## *Menu path*

Data Preparation > Database > ISI > Extract Author Citation Network

## *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](#)
- [Merge Document Sources](#)
- [Match References To Papers](#)