

Inclusion Dependency Discovery with SINDY

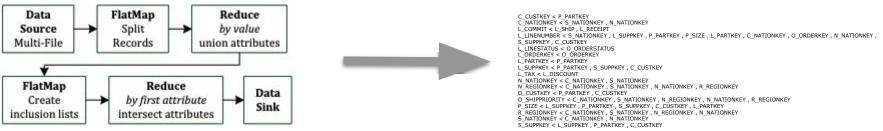
Samik Real & Lisa Koeritz



Inclusion Dependency (IND) Discovery - with SINDY

Implementation follows the steps of the SINDY algorithm from Kruse, Papenbrock and Naumann (2015) utilizing Spark Framework

- 1. read data into single columns, create one dataset and do cache-based pre-aggregation to create attribute sets
- 2. create inclusion lists using explode() and aggregate them for every attribute via reduce() and intersect()
- 3. disassemble lists into INDs, sort alphabetically and output into console



implementation description from Kruse, Papenbrock and Naumann (2015)