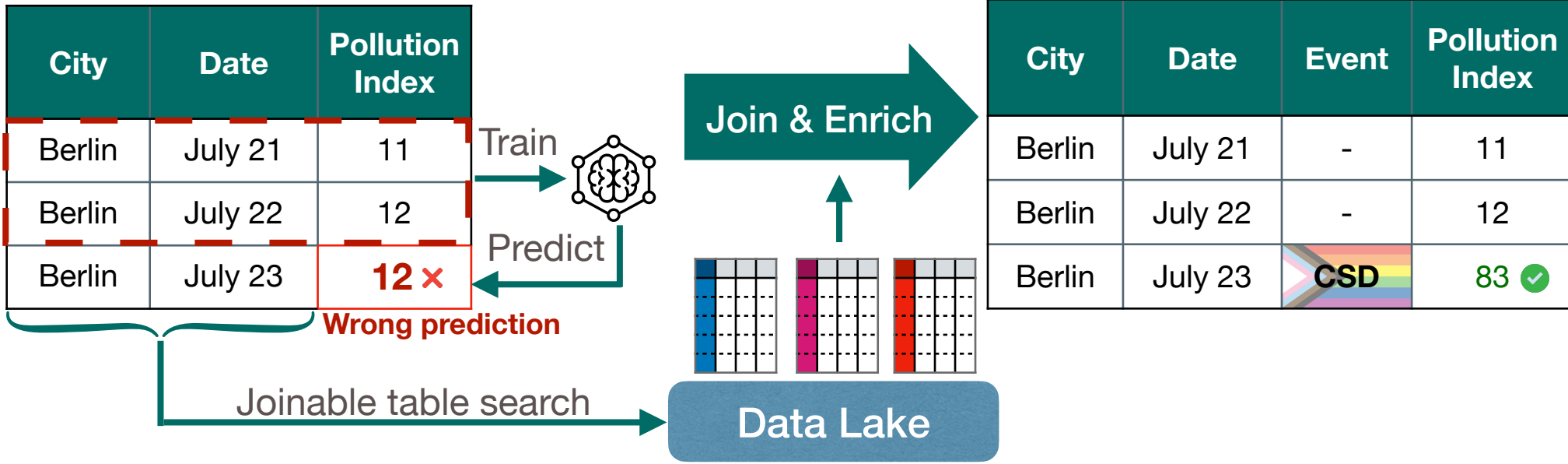


# MATE: Multi-Attribute Table Extraction

## Motivation

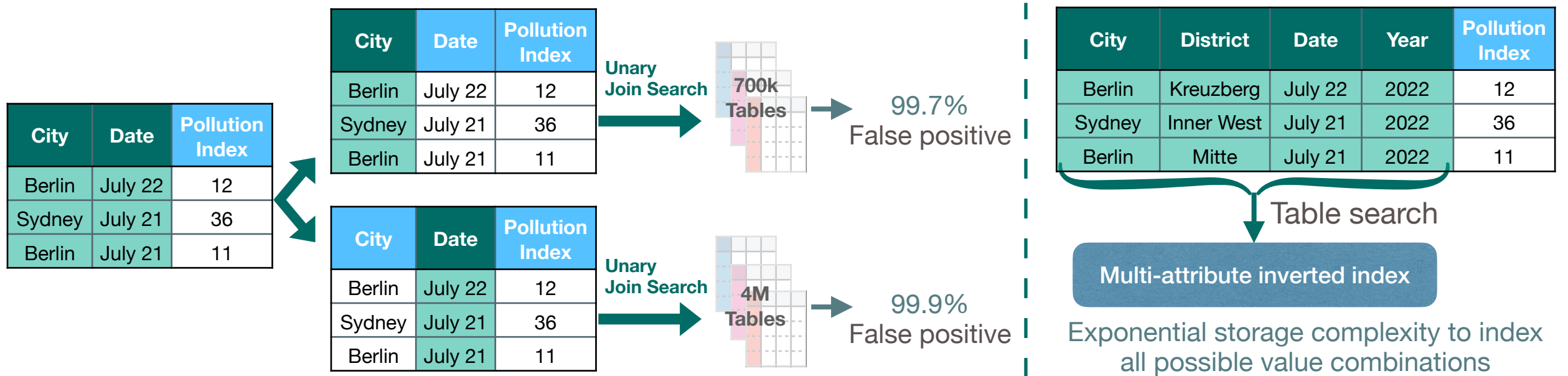
Finding informative features is a crucial task in data science workflows

Automated data discovery in large data lakes can be the solution



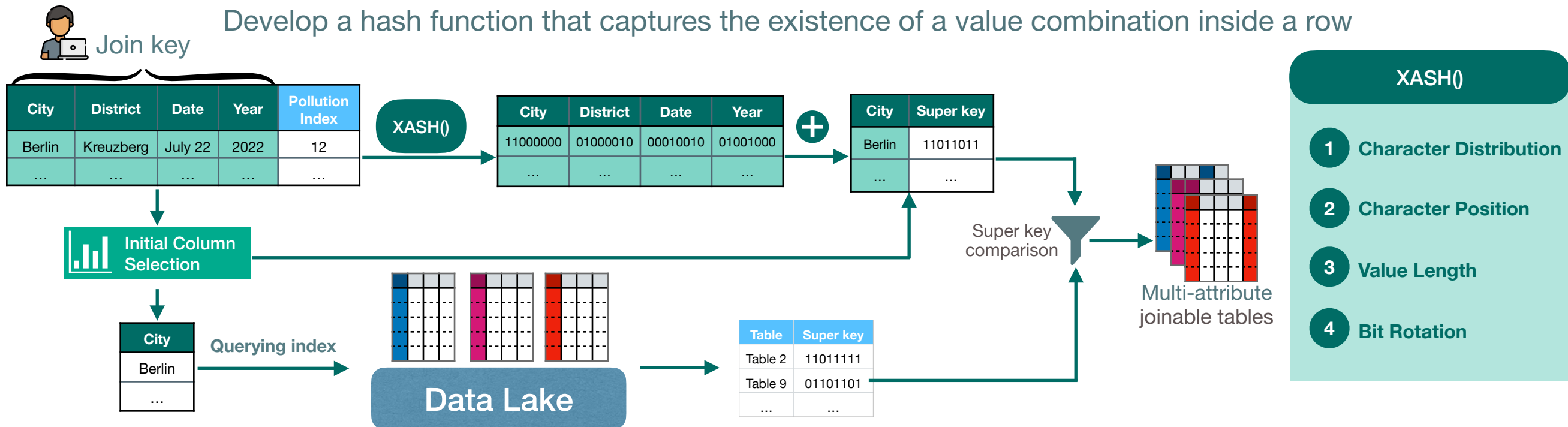
## Problem

Composite keys: Current single- & multi-attribute discovery solutions: high false positive rate or high storage complexity



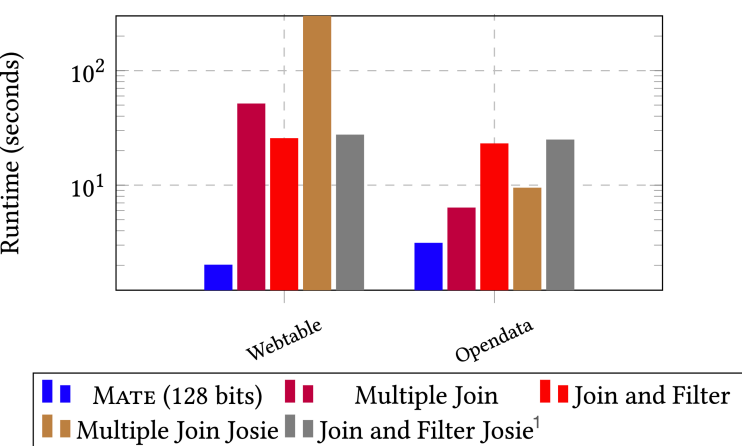
## Solution

Develop a hash function that captures the existence of a value combination inside a row



## Experiments

Runtime comparison between MATE and S.O.T.A



Runtime comparison between XASH and other hash functions

Dataset	SimHash		HT		BF		LHBF <sup>1</sup>		XASH	
	128	512	128	512	128	512	128	512	128	512
Webtable	13.4	17.2	9.5	12.4	4.7	16.8	5.6	4.2	1.6	2.0
Opendata	102.9	56.5	24.0	10.8	11.0	3.4	30.1	8.3	6.5	3.1

Impact of different components in XASH

