

[The MIT Information Quality
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Title:

Entity and Identity Resolution

Abstract:

Entity resolution (ER) is concerned with determining whether two entity references (records) point to the same or to different real-world entities. ER, sometime called Identity Resolution, is tightly coupled with Information Quality, and is a key component of Customer Data Integration (CDI), fraud detection, law enforcement, and national intelligence. The tutorial will cover

- The five major ER activities
 - ◆ Entity Reference Extraction
 - ◆ Entity Reference Preparation
 - ◆ Entity Reference Resolution
 - ◆ Identity Management
 - ◆ Entity Relationship Exploration
- How record linking is different from record matching
- Entity Resolution versus Identity Resolution
- The role of “identity” in ER
- Current architectures and techniques used in ER processing
- Metrics for evaluating ER outcomes
- Demonstration of an ER System

The objective of the tutorial is to give participants a better understanding of the principles and terminology of entity resolution, and how it is being implemented in by leading companies and government agencies.