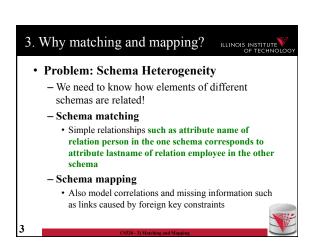
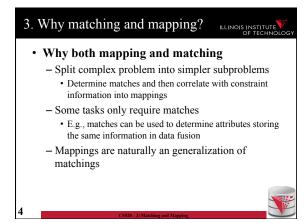
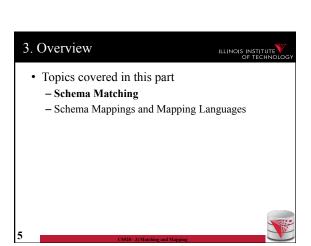
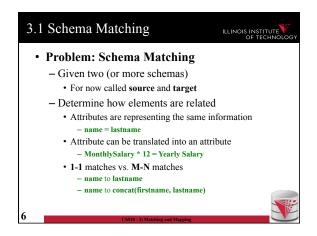


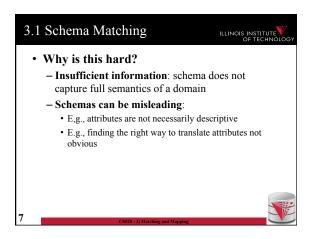
Why matching and mapping? Problem: Schema Heterogeneity Sources with different schemas store overlapping information Want to be able to translate data from one schema into a different schema Datawarehousing Data exchange Want to be able to translate queries against one schema into queries against another schema Virtual dataintegration 2

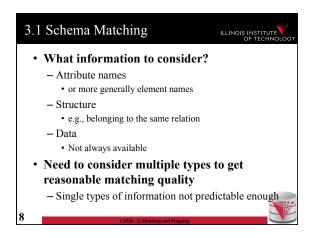


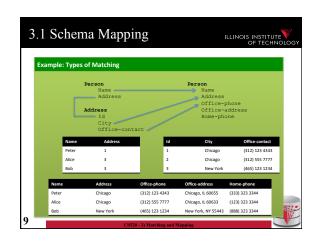


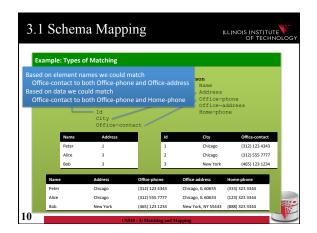


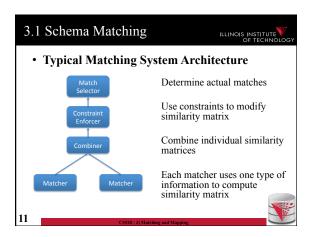


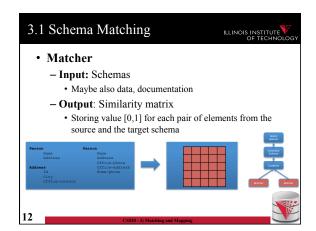


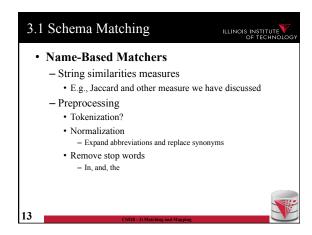


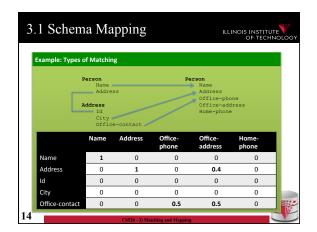


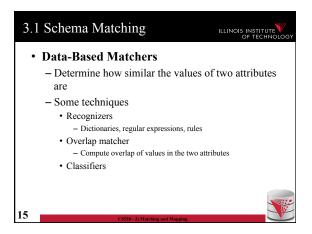


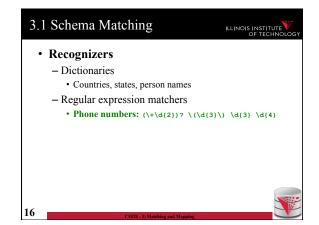


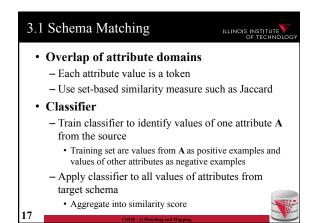


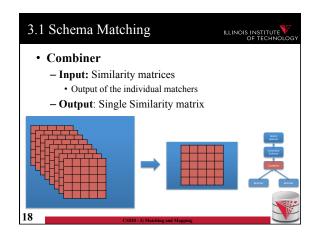


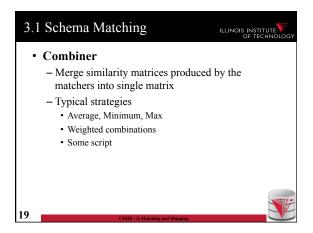


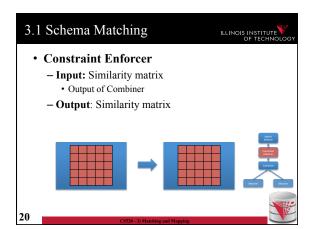


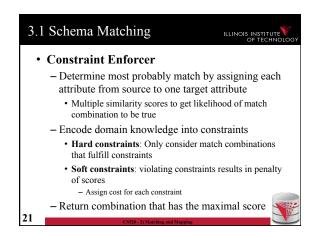


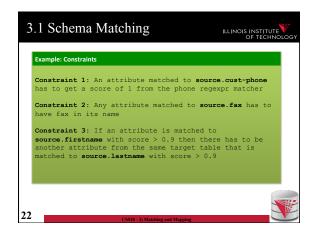


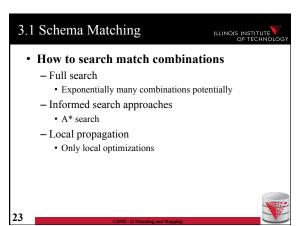


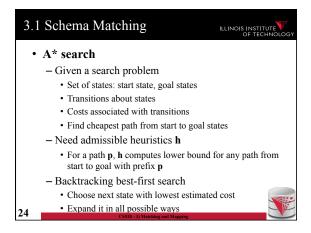


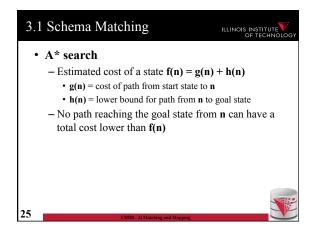


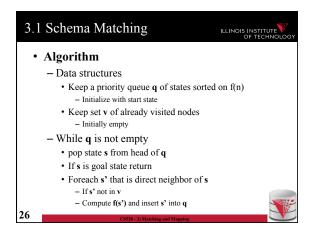


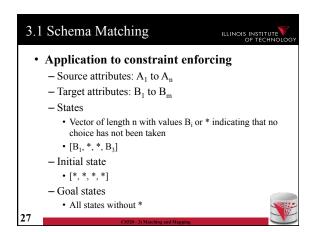


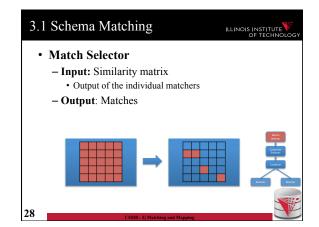


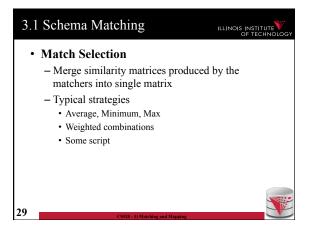


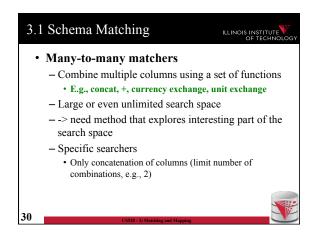


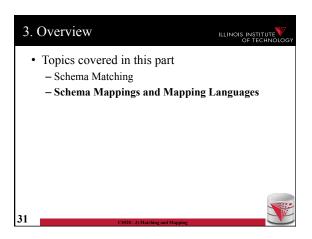


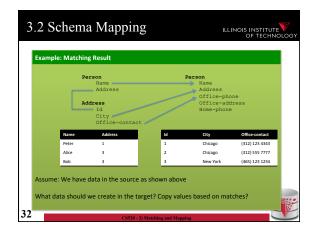


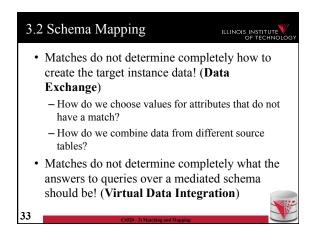


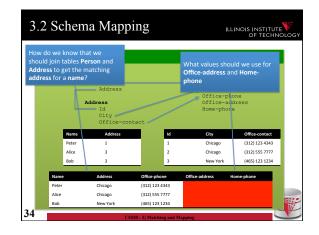


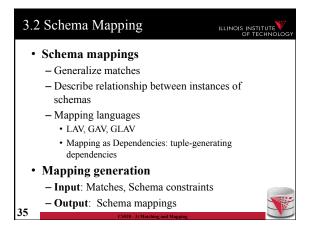


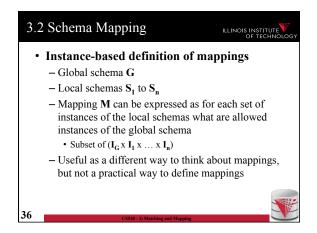


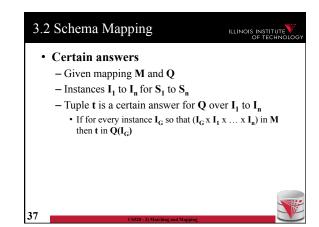












Languages for Specifying Mappings
 Describing mappings as inclusion relationships between views:
 Global as View (GAV)
 Local as View (LAV)
 Global and Local as View (GLAV)

 Describing mappings as dependencies
 Source-to-target tuple-generating dependencies (st-tgds)

Describing mappings as inclusion relationships between views:
 Global as View (GAV)
 Local as View (LAV)
 Global and Local as View (GLAV)

 Terminology stems from virtual integration
 Given a global (or mediated, or virtual) schema
 A set of data sources (local schemas)
 Compute answers to queries written against the global schema using the local data sources

