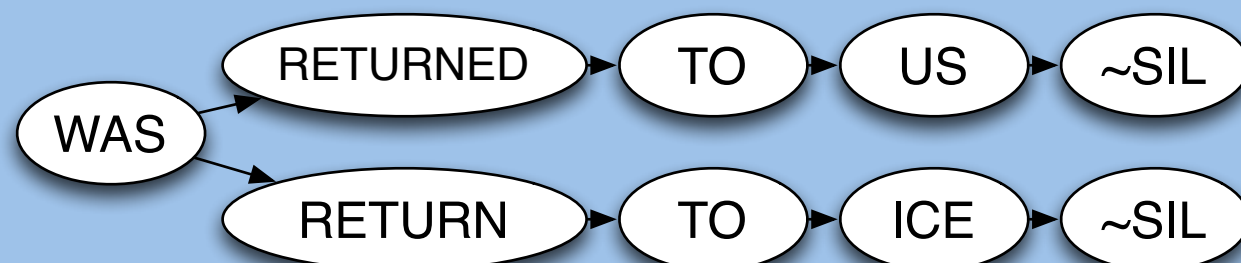


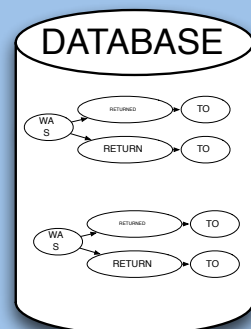
Input: word
lattice

Input to the system is
a word lattice output
by an ASR system.



data preprocessing

Database
tables



lattice	cand_id	word
L1	L1-2	RETURNED
L1	L1-3	RETURN

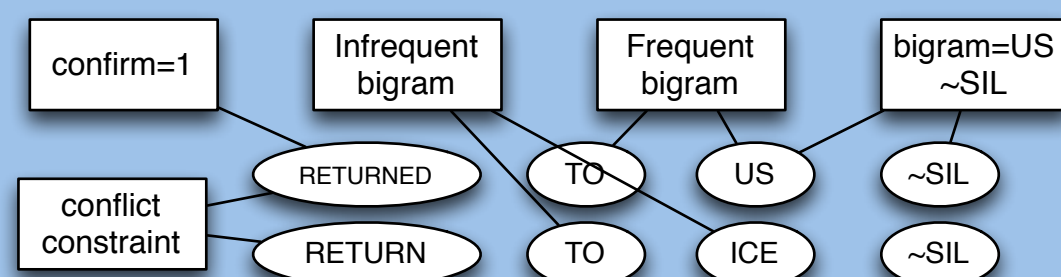
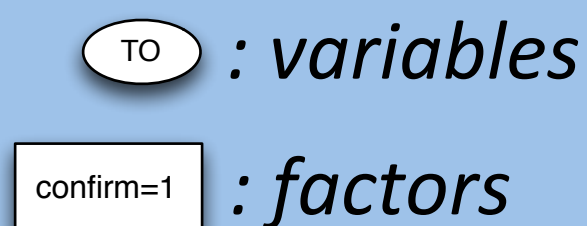
feature extraction

Extracted
features

lattice	cand_id	word	feature
L1	L1-2	RETURNED	confirm=1
L1	L1-3	RETURN	2gram=RETURN TO

factor graph generation

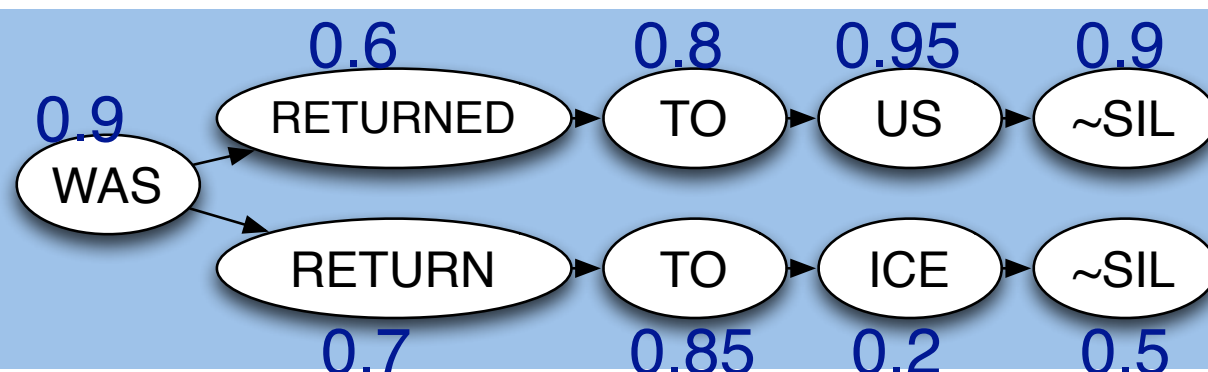
Factor graph



statistical inference and learning

Candidates
with
probabilities

Learn weights for
factors, and compute
marginal probabilities
for variables



finding best-path

Best path (or
best N paths)

Search for a best
path that optimizes
edit distance (WER)

