



Inhabitant_ID	City	Salary
A1	San Francisco	65,000\$
A2	San Francisco	75,000\$
A3	San Diego	60,000\$

Input data

Knowledge graph  
representation

Embeddings

Knowledge graph embedding

$f(\text{San Francisco}, \text{Population}, 0.87\text{M})$

$f(\text{San Diego}, \text{Population}, 0.87\text{M})$

*negative  
sampling*

San Diego

San Francisco

0.87M

Population

Salary

KEN

Features			Target
City	Embedding	Area	Price
San Francisco	0.1 -0.3 ... 0.7	30 m2	450,000\$
San Diego	0.15 -0.2 ... 0.8	55 m2	?

Downstream task