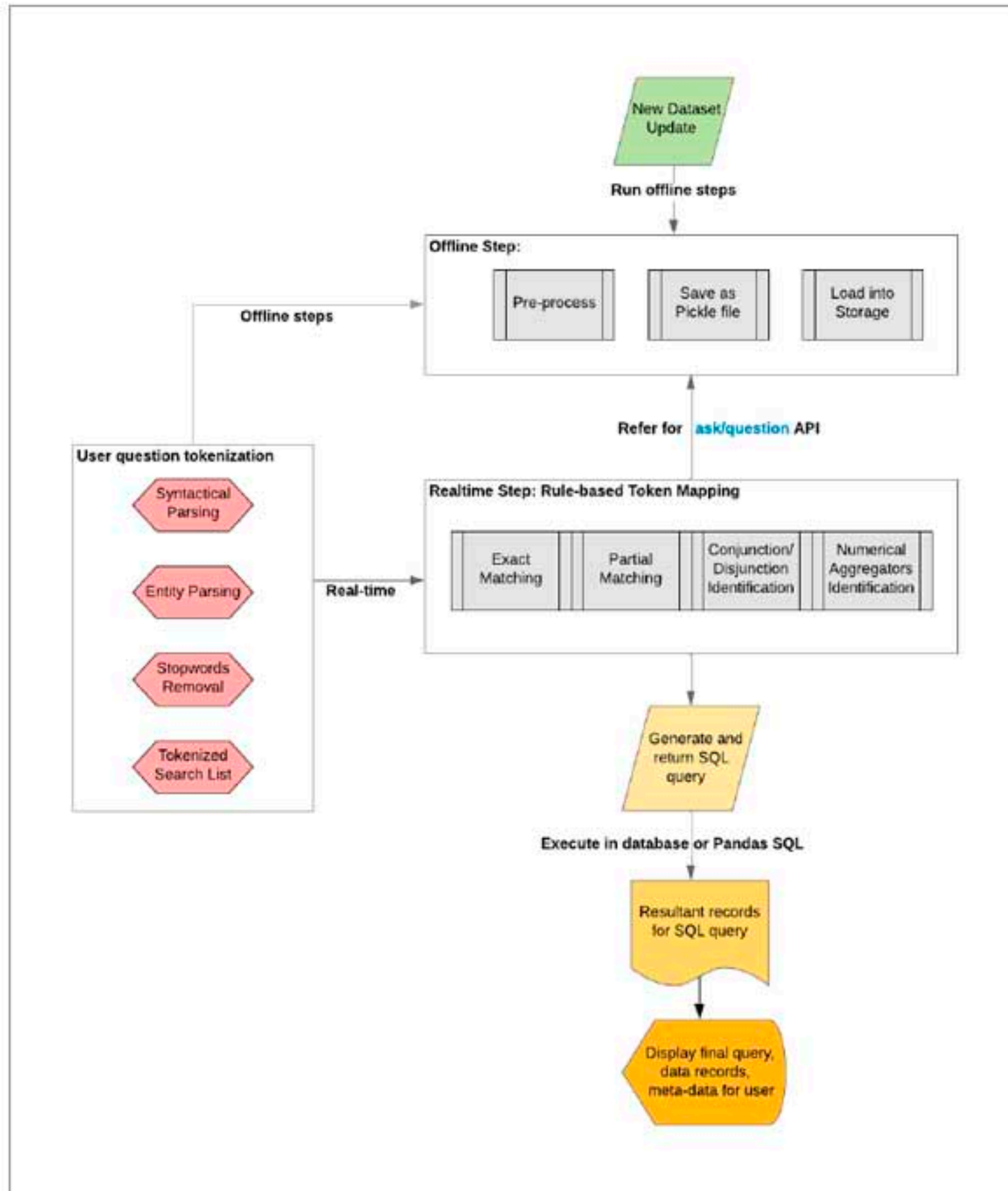


E.g., Mapping natural language onto SQL



Q1: "Show all cases in Beijing from 3 months ago" would translate to –

```
SELECT * FROM data
WHERE ((LastUpdate LIKE '%2021-02%'
      OR ObservationDate LIKE '%2021-02%')
      AND Province_State LIKE '%Beijing%');
```

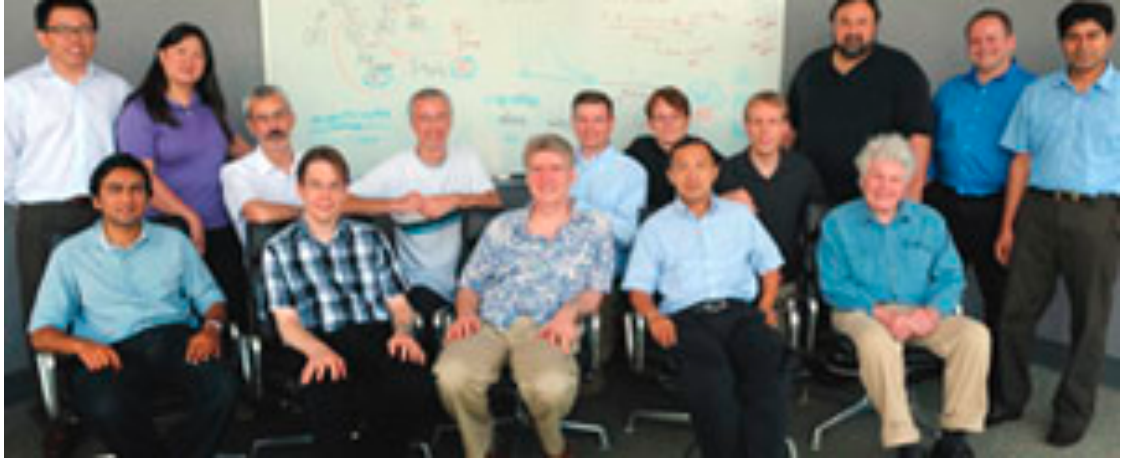
Q2: "Show average of Recovered in %Mainland China%" would translate to:

```
SELECT AVG(Recovered) AS AVG_OF_COLUMN
FROM data
WHERE Country_Region = 'Mainland China';
```

Q3: "Tell me the details about Tibet and %Mainland China%" would translate to:

```
SELECT *
FROM data
WHERE Province_State = 'Tibet'
      AND (Country_Region = 'Mainland China')
```

DeepQA ... i.e., IBM Watson



IBM Watson Algorithms team, c.a., 2009

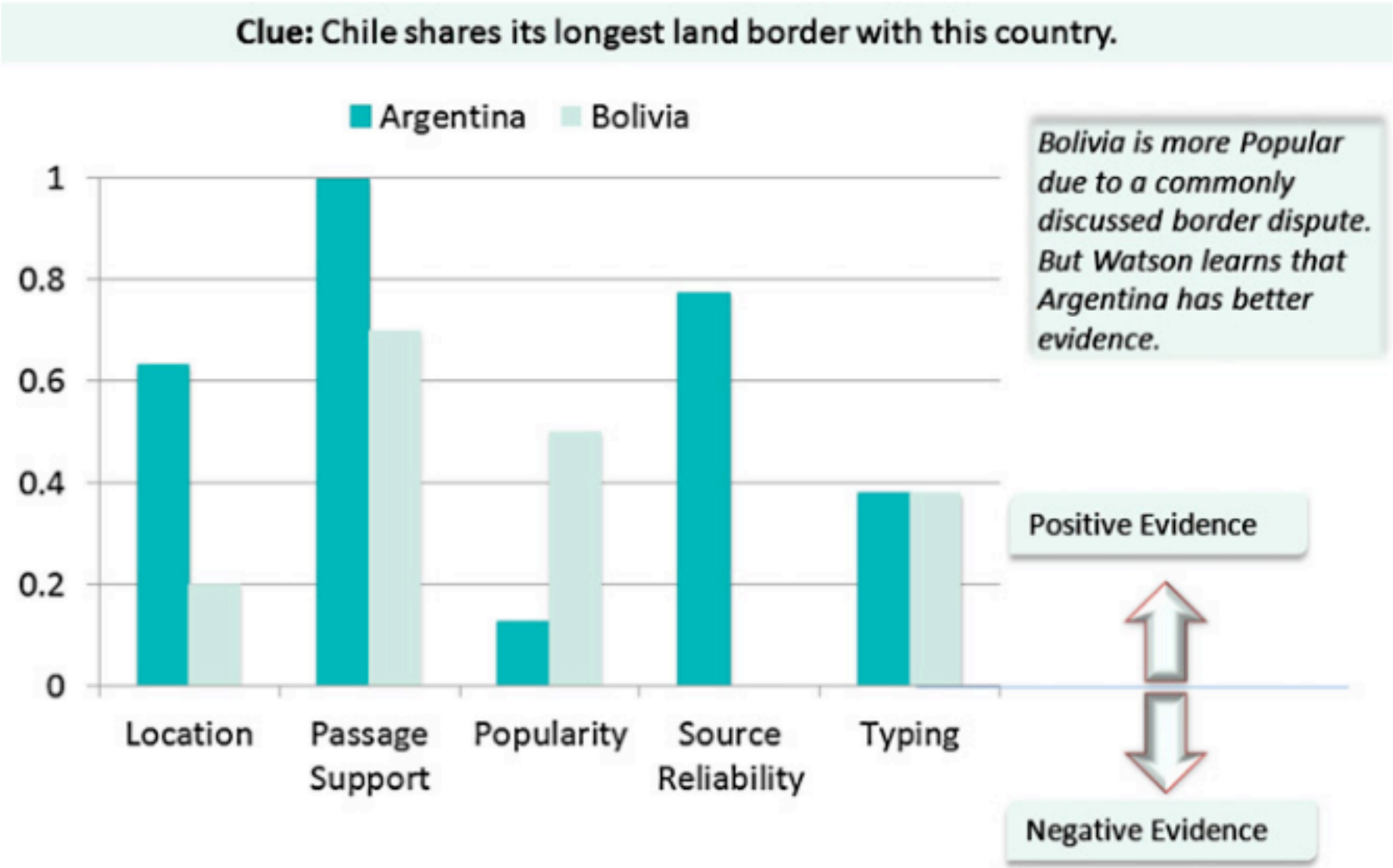
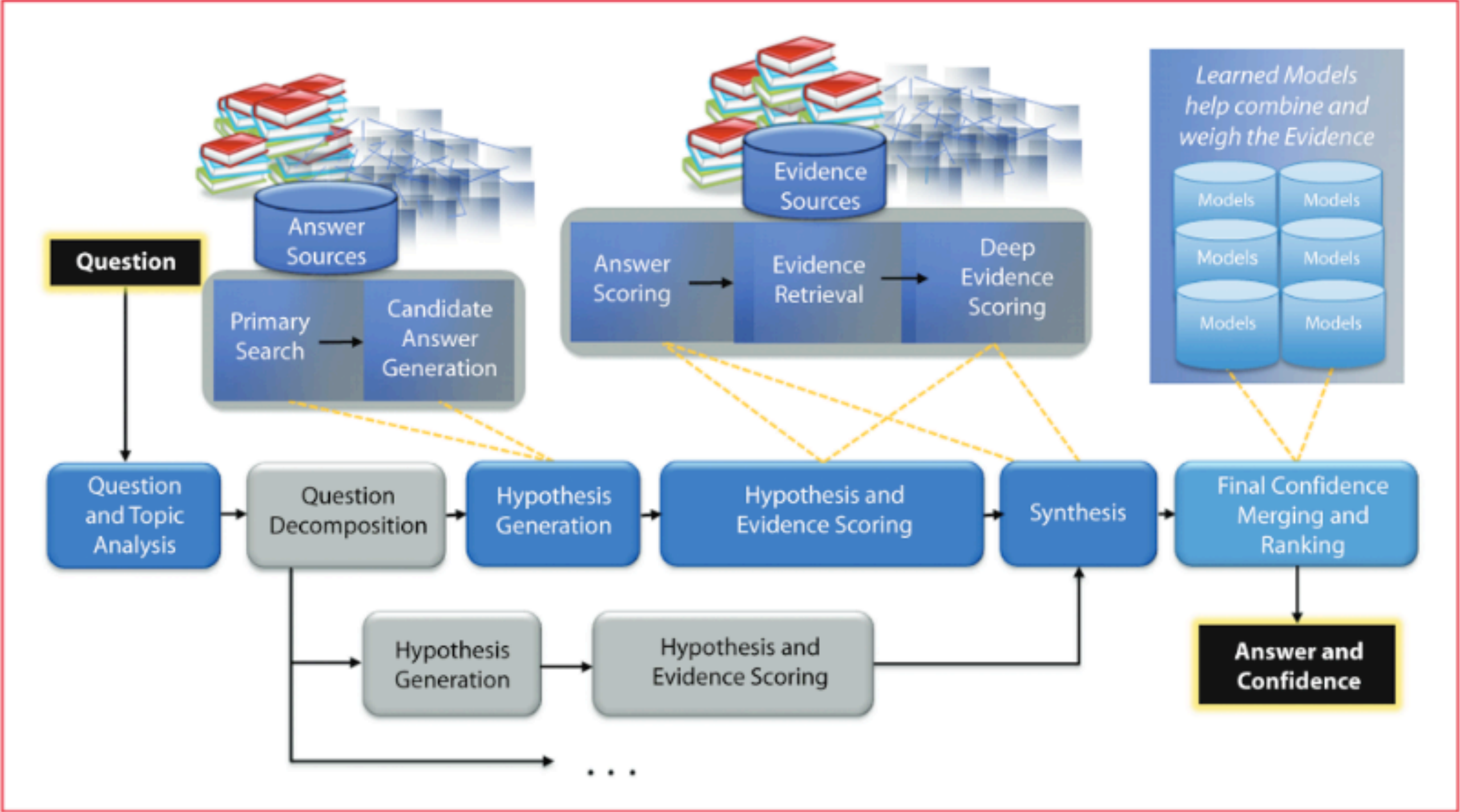


Fig. 2. Dimensions of evidence defined for Jeopardy!

Figure 1
DeepQA architecture.

Figures from Ferrucci et al., 2011