CS5560 Knowledge Discovery and Management

Problem Set (PS-2A)
June 12, 2017

Name: Syed Moin

Class ID: 28

1. Draw knowledge graphs (both Schema and Data graphs)

CHICAGO (AP) — Citing high fuel prices, United Airlines said Friday it has increased fares by \$6 per round trip on flights to some cities also served by lower-cost carriers.

American Airlines, a unit AMR, immediately matched the move, spokesman Tim Wagner said. United, a unit of UAL, said the increase took effect Thursday night and applies to most routes where it competes against discount carriers, such as Chicago to Dallas and Atlanta and Denver to San Francisco, Los Angeles and New York.

- 2. Design question answering for the given input text. Try to include at least one questions for the following question types.
 - What
 - Where
 - When
 - Who
 - How
 - How much
 - Yes/No

IA) Knowledge graph !

The knowledge graph is a knowledge base used by hoogle to enhance its search engine's search results with semantic search information gothered from a wide variety of sourced. It copuses entitles, attributes and relationships.

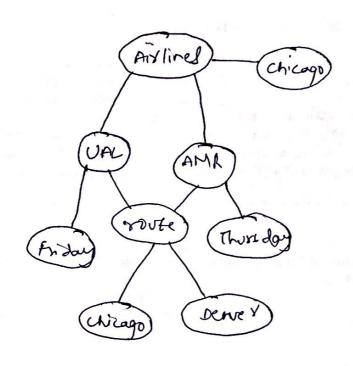
Nodel one entitles. Nodes are labeled with attributes.

Schema Knowledge graphs

In schema knowledge graph the leaf node contains the

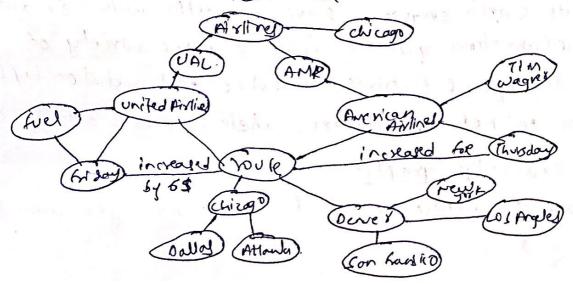
data which can be further dassified. It represents the schema of the data with out representing the inner details of the text.

The shema knowledge graph for the text mentioned is represented below.



Data knowledge graph!

The Data knowledge graph the data is represented by its innermost details. The complete representation of the data is shown in the leaf node.



- 2A)
 - 1) what
 - 8) What is the realon for increase in face rated?
- A) High fuel priced
- 2) where
 - a) where the increase effects?
 - A) Flight, routel from chicago to Dallal and Atlanta
 Flight routel from Denver to San Francisio, los angles &
 Newyork
- 3) when
 - a) when it the increase in fuel rated mentioned by time wagner?
 - A) Thursday night
- 4) who:
 - 8) who said American pirlines, a unit AMR immediately matched the move?
 - A) Tim wagner.
- 5) HOW
 - 9) How the increase in the full price effected the Airlines?

 A) They have increased the fore rated
- 6) How much is the increase in the fare rate for moved trip?
 A) 6\$
- a) Is the fuel price increased leads to increase in the Fax ?

 A) Yes