CS5560 Knowledge Discovery and Management

Problem Set (PS-2A)

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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.

- 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

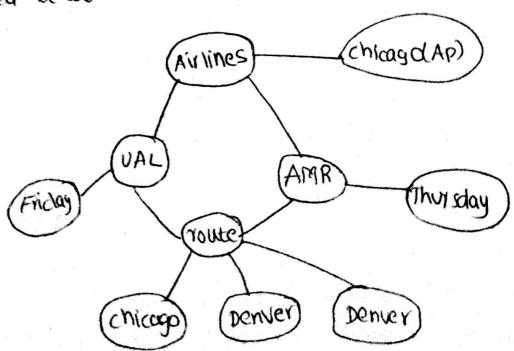
1 thousedge graph:

the knowledge graph is a knowledge base wed by Google to enhance its search engine's search results with Semantic-search information gathered from a wide variety of sources. It aptures entities, attributes and relationships. Nodes are entitles. Nodes are labeled with attributes

schema knowledge graphs

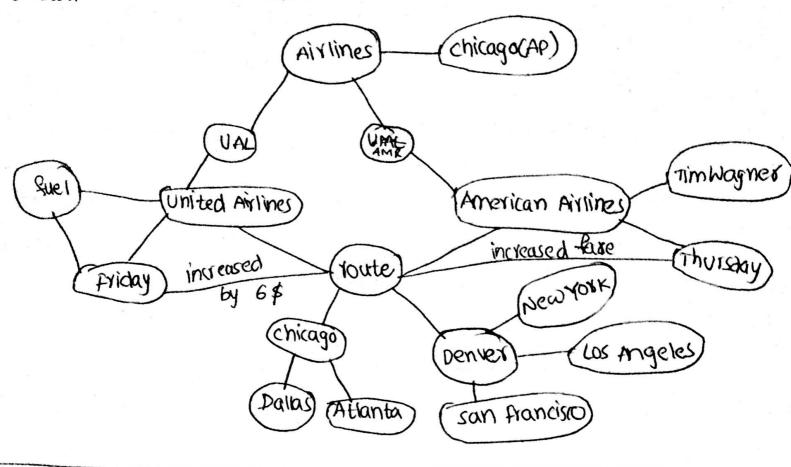
In the schema knowledge graph the leaf node contains the data which can be further classified. It represents the schema of the data with out representing the inner details of the text.

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



Data knowledge graph

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



2) @ What

quest what is the reason for increase in fare rates?

Anst High fuel prices

6 where

aces; where the increase effects?

Anst Flight routes from Dei Chicago to Dallas and Atlanta Flight routes from Denver to San Franciso, Los Angeles and NewYork© [When]

buest when is the increase in fuel rates mentioned by Tim wagner?

Ansi Thursday night

Quest When United Airlines said it has increased fare rates?

Ans: Friday

d) [who]

Buest who said American Airlines, a unit AMR immediately matched the move.?

Ans Tim Wagner.

@ HOW

Ansi They have increased the farerates.

P [HOW much]

quest How much is the increase in the fare rate for round

EYIP?

9) [Yes/10]

quest Is the fuel price increase leads to increase in the

Ansir Yes.