CS5560 Knowledge Discovery and Management

Problem Set (PS-2A)

June 12, 2017

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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.

2. Design question answering for the given input text. Try to include at least one questions for the following question types.
   - What — What was the news about?
   - Where — Where was the news about fare increased?
   - When — when was the fare change announced?
   - Who — Who announced the fare changes?
   - How — How did AMR unit get effected?
   - How much — How much fare increased?
   - Yes/No — Is fare increased?

① Schema :-

< Subject : Predicate : Object >

< : AP : is in : CHICAGO >

< : United Airlines : is in : CHICAGO >

< : United Airlines : increased fares by : $6 >

< : United Airlines : increased fares on : friday >

< :American Airlines : in : CHICAGO >

< : American Airlines : is a unit of : AMR >

< :Tim Wagner : is the spokesperson of : American Airlines >

< :United : is a unit of : UAL >

< : United : increased fares on : Thursday >

< : United : increased fares in : night >

< : CHICAGO : fares were increased to : Atlanta >

< : Denver : fares were increased to : San Fransisco >

< : Los Angeles : fares were increased to : New York >