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CS 6900

Dr. Dyreson Presentation

1. What are the major research areas of the presenter?
    a. Database Systems
2. List the names of the projects that the presenter's research group did in the pastor has been doing recently.Among these projects, which project is the most appealing to you and which project is the least appealing to you? Why?
    a. Grouping and Aggregation in Mapreduce, Temporal Aggregation in Mapreduce, Couch DB
    b. All of Dr. Dyreson's seminar centered around the topic of Couch DB. This is a way to manipulate the database to make accessing certain data easier. Specifically he talked about saving information regarding time and how to find overlapping time. His approach I found very interesting using a tree system.
    c. The above project was the only one talked about during Dr Dyreson's presentation. I liked the project over all. I wish he had presented it differently. He focused on a specific example and didn't expound on any other topics or explain how his project would be implemented.
3. List two researchers in the other universities who has the same research interests as the presenter.
    a. Andy Pavlo at Carnegie Mellon University.
    b. Dr. Luis Gravano at Columbia University.
4. Summarize two most interesting research projects from each of the two researchers.
    a. Andy Pavlo is working on a database project called Peloton. This is a database system for autonomous operation. This system is designed to optimize current work loads and  predict future work loads. It is also made to enable future optimizations that aren't possible today due to the complexity of managing these systems is beyond the abilities of human experts.
    b. Dr Luis Gravano is working on a project that is geared toward social media. The idea is to extract information from social media pertaining to public health.For example, they could extract the information pertaining to food borne illnesses by looking at posts by people who went to specific restaurants and got sick.