Abstract Details

Title: Management of Temporal Data

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Abstract: In this paper, tuple time-stamping temporal model is proposed for the retrieval of meteorological data. This paper accentuate upon the retrieval of temporal database by extending the functionality of Postgres database system. The tuple time-stamping approach is used to query the time-varying data. Conventional databases are not capable of managing temporal data as it is a series of snapshot relations. We proposed and implemented a temporal model for the retrieval of temporal data using the meteorological dataset of a particular location in the National Capital Region of Delhi for the year 2014. The results may be used for the analysis of climate trends. Various temporal models have been proposed and implemented by the researchers but fewer efforts have been put in the real world problems.

Keywords: Indexing, Time-stamping, Temporal Relational Algebra, Valid Time.