ABSTRACT

MEGA WIRNA YULIANTI. Implementation of Spatio-Temporal Change Query in Relational Database. Under the supervision of ANNISA.

Geographic object changes in various views. Object changes are recorded using a model of static storage. No historical connection between old version data and new version data has been built. For that, a storage model of spatio-temporal queries that can analyze spatio-temporal changes has been developed. The object changes the geometry are grouped according to the taxonomy of Spatio-Temporal Pattern Change. This research has been able to apply the query patterns change including born, expand, contract, split, normal and die. This query based on geometric (area) changes. The implementation of spatio-temporal change queries represents an object changes continuously with easy, change detection is done by comparing two versions of data.

Keyword: spatio-temporal change query, spatio-temporal change pattern.