Abstract

In today’s information scenario, processing of data for exact knowledge has become a very important but critical task for the researchers and organizations. Involvement of Big Data and real time streaming data makes the data processing more challenging in order to extract and to visualize the exact data. In the most popular social media portals that includes streaming data like Twitter, Facebook and LinkedIn the rapidly growing information is updated several thousand times within one second. In this research, the extraction of streaming data from most popular social media portal (Facebook) is done using different SDKs, Graph API Explorer and other APIs and data processing is done using Cypher Query Language (CQL) and Neo4jClient (C# API for Neo4j) in Microsoft C#. Then Neo4j Graph Database along with Microsoft Visual Studio 2013 is used for the Visualization and knowledge extraction. CQL facilitate the extraction of streaming data in an efficient manner as its development intended the processing of data in a linked manner. The processing and visualization of rapidly growing streaming data is done as linked data which makes the data and knowledge extraction very easy as the relationship between data is present along with the link between them.

References
- Jayanta Mondal and Amol Deshpande, "Stream Querying and Reasoning on Social Data", Department of Computer Science, University of Maryland, College Park MD 20742

- Weaver, Jesse, and Gregory Todd Williams, "Scalable RDF query processing on clusters and supercomputers." The 5th International Workshop on Scalable Semantic Web Knowledge Base Systems (SSWS2009), 2009.

Index Terms

Computer Science

Database Management

Systems

Keywords

Graph Database, Streaming Data, Neo4j, Microsoft C#, Neo4jClient, Cypher Query Language