Database Migration from Structured Database to non-Structured Database

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ABSTRACT
Database are growing very fast and becoming more complex in the volume (terabyte to petabyte), variety (structured, un-structured and hybrid), and velocity (high speed in growth). Management of database (BigData, so nomenclature) has become the global challenge. The data collection is currently managed and exploited mostly by using conventional data management tools such as classic relational database management systems (RDBMS) or conventional search engines. These systems and tools have been observed to be inefficient and incapable to handle the data in most of the cases e.g.: social networking sites. Efforts are being made to come up with some utility support in order to overcome the observed limitations. The research study was conducted to develop a Cloud-based Utility. It was aimed to convert structural database, SQL to un-structural database, NoSQL [11] systematically and sufficiently. The outcome of the study revealed that the database management becomes considerably scalable, flexible and efficient when traditional RDBMS are complimented by specifically designed rich set of alternative DBMS such as NoSQL, NewSQL based systems. The database conversion shall help in Database analysis and migration from traditional database to today's BigData.

General Terms
SQL, NoSQL, Database, Python, Django, BigData.

1. INTRODUCTION
Many organizations collect vast amounts of customer, scientific, sales, and other data for future analysis. Traditionally, most of these organizations have stored structured data in Relational Databases for subsequent access and analysis. However, a growing number of developers and users have begun turning to various types of Non-Relational now frequently called NoSQL databases.

Relational databases such as MySQL, has predefined schemas fixed table names and types of columns and Relational databases don't work easily in a distributed manner because joining their tables across a distributed system is difficult.

NoSQL databases have dynamic schemas. NoSQL generally process data faster than relational databases. In most typical situations, SQL databases are vertically scalable. You can manage increasing load by increasing the CPU, RAM, SSD, etc. on a single server. On the other hand, NoSQL databases are horizontally scalable. You can just add few more servers easily in your NoSQL database infrastructure to handle the large traffic.

To get a gist of working of the database migration, the migration program will be written in Python [1] [2] language which will be deployed on Amazon Web Service EC2. Web interface will be developed using Django Framework for uploading and downloading the converted database. Parallel computing is used to enhance the speed of computing.

his paper will give a brief introduction to all the tools and programming language used for database migration. It also talks about an optimization method to increase the speed of migrating huge data from one format to another.
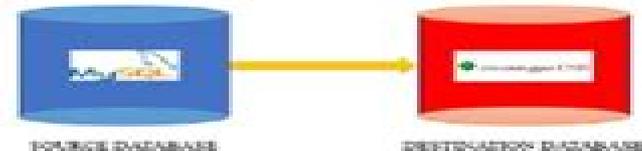

SOURCE DATABASE   DESTINATION DATABASE

Fig 1: Problem Statement: Database Conversion from SQL to NoSQL.

Problem Definition
There's nothing wrong with the traditional RDBMS. It simply isn't enough for the application dealing with huge databases. Also, NoSQL databases need cheap hardware. Hence, some of the MySQL databases need to be converted to NoSQL databases. Many institutions and big companies need to convert their big databases (MySQL).Our utility will help them to convert from MySQL to NoSQL. [9] [10] [12].

2. RELATED WORK
Last decade records a huge amount of data transition taking place on the internet. Today's world is connected by social networking sites. Such sites have huge sizes of databases. Our review in this area shows that not many approaches that provide tools or utilities for database conversion.

Ton Blankers in [3] proposed discusses trends, challenges and solutions of data conversion in application modernization projects. An utility for converting one SQL database into another SQL database was proposed in this paper.

The white paper published by Oracle [4] mentions techniques and utilities for migrating non oracle databases to oracle databases.

Database Migration From Structured Database To Non

Peipei Pang

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