

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.

This 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.

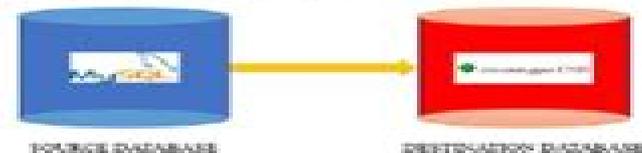


Fig 1: Problem Statement: Database Conversion from SQL to NoSQL.

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.

Tom Blankens 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

Marcelo Leite



Database Migration From Structured Database To Non:

Proceedings of the International Conference on Cognitive and Intelligent Computing Amit Kumar, Gheorghita Ghinea, Suresh Merugu, Takako Hashimoto, 2023-01-01 This book presents original peer reviewed select articles from the International Conference on Cognitive Intelligent Computing ICCIC 2021 held on December 11 12 2021 at Hyderabad India The proceedings has cutting edge Research outcome related to Machine learning in control applications Soft computing Pattern Recognition Decision Support Systems Text analytics and NLP Statistical Learning Neural Network Learning Learning Through Fuzzy Logic Learning Through Evolution Evolutionary Algorithms Reinforcement Learning Multi Strategy Learning Cooperative Learning Planning And Learning Multi Agent Learning Online And Incremental Learning Scalability Of Learning Algorithms Inductive Learning Inductive Logic Programming Bayesian Networks Support Vector Machines Case Based Reasoning Multi Agent Systems Human Computer Interaction Data Mining and Knowledge Discovery Knowledge Management and Networks Data Intensive Computing Architecture Medicine Health Bioinformatics and Systems Biology Industrial and Engineering Applications Security Applications Smart Cities Game Playing and Problem Solving Intelligent Virtual Environments Economics Business And Forecasting Applications Articles in the book are carefully selected on the basis of their application orientation The content is expected to be especially useful for Professionals Researchers Research students working in the area of cognitive and intelligent computing *International Conference on Advanced Intelligent Systems for Sustainable Development* Janusz Kacprzyk, Mostafa Ezziyani, Valentina Emilia Balas, 2023-06-09 This book describes the potential contributions of emerging technologies in different fields as well as the opportunities and challenges related to the integration of these technologies in the socio economic sector In this book many latest technologies are addressed particularly in the fields of computer science and engineering The expected scientific papers covered state of the art technologies theoretical concepts standards product implementation ongoing research projects and innovative applications of Sustainable Development This new technology highlights the guiding principle of innovation for harnessing frontier technologies and taking full profit from the current technological revolution to reduce gaps that hold back truly inclusive and sustainable development The fundamental and specific topics are Big Data Analytics Wireless sensors IoT Geospatial technology Engineering and Mechanization Modeling Tools Risk analytics and preventive systems *Decision Analytics for Sustainable Development in Smart Society 5.0* Vikram Bali, Vishal Bhatnagar, Joan Lu, Kakoli Banerjee, 2022-06-23 This book covers sustainable development in smart society s 5 0 using data analytics The data analytics is the approach of integrating diversified heterogeneous data for predictive analysis to accredit innovation decision making business analysis and strategic decision making The data science brings together the research in the field of data analytics online information analytics and big data analytics to synthesize issues challenges and opportunities across smart society 5 0 Accordingly the book offers an interesting and insightful read for researchers in the areas of decision analytics cognitive

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Healthcare Data Analytics and Management Nilanjan Dey,Amira S. Ashour,Simon James Fong,Chintan Bhatt,2018-11-15 Healthcare Data Analytics and Management help readers disseminate cutting edge research that delivers insights into the analytic tools opportunities novel strategies techniques and challenges for handling big data data analytics and management in healthcare As the rapidly expanding and heterogeneous nature of healthcare data poses challenges for big data analytics this book targets researchers and bioengineers from areas of machine learning data mining data management and healthcare providers along with clinical researchers and physicians who are interested in the management and analysis of healthcare data Covers data analysis management and security concepts and tools in the healthcare domain

Highlights electronic medical health records and patient information records Discusses the different techniques to integrate Big data and Internet of Things in healthcare including machine learning and data mining Includes multidisciplinary contributions in relation to healthcare applications and challenges

Migrating Legacy Systems Michael L. Brodie, Michael Stonebraker, 1995 Information systems that resist modification and don't support organizational requirements are a critical business problem The authors present a step by step strategy for complete IS migration to a new environment and discuss the potential problems and alternatives that may arise in the process

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Database Y. Kambayashi, 1981

[Proceedings, Seventh Working Conference on Reverse Engineering](#), 2000 The 40 papers on recovering information from existing software and systems discuss such aspects as the dynamic re engineering of binary code with run time feedbacks exploring legacy systems using types migrating legacy user interfaces to the Internet teaching database reverse engineering advanced clone analysis to support object oriented system refactoring a reference architecture for Web servers portable source code representations using XML a structured demonstration of program comprehensive tools understanding the behavior of Java programs traceability recovery by modeling programmer behavior evaluating the suitability of data clustering for software

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