

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.

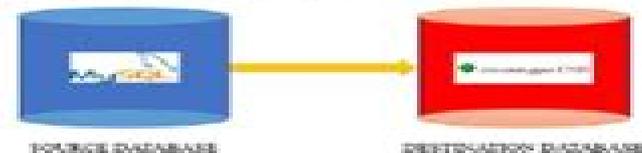


Fig 1: Problem Statement: Database Conversion from SQL to NoSQL.

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.

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Archaeology Data Service



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

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specific topics are Big Data Analytics Wireless sensors IoT Geospatial technology Engineering and Mechanization Modeling Tools Risk analytics and preventive systems

Microsoft Certified Azure Data Fundamentals (Exam DP-900) Certification Guide Marcelo Leite,2022-11-25 Learn how to implement successful Azure Data projects and get the skills to clear the DP 900 certification exam with the help of mock tests and self assessment scenarios for better preparation Key FeaturesGet the knowledge you need to pass the DP 900 exam on your first attemptGain fundamental knowledge of the core concepts of working with data in Azure cloud data servicesLearn through a practical approach and test yourself with mock exams at the end of the bookBook Description Passing the DP 900 Microsoft Azure Data Fundamentals exam opens the door to a myriad of opportunities for working with data services in the cloud But it is not an easy exam and you ll need a guide to set you up for success and prepare you for a career in Microsoft Azure Absolutely everything you need to pass the DP 900 exam is covered in this concise handbook After an introductory chapter covering the core terms and concepts you ll go through the various roles related to working with data in the cloud and learn the similarities and differences between relational and non relational databases This foundational knowledge is crucial as you ll learn how to provision and deploy Azure s relational and non relational services in detail later in the book You ll also gain an understanding of how to glean insights with data analytics at both small and large scales and how to visualize your insights with Power BI Once you reach the end of the book you ll be able to test your knowledge with practice tests with detailed explanations of the correct answers By the end of this book you will be armed with the knowledge and confidence to not only pass the DP 900 exam but also have a solid foundation from which to embark on a career in Azure data services What you will learnExplore the concepts of IaaS and PaaS database services on AzureQuery insert update and delete relational data using SQLExplore the concepts of data warehouses in AzurePerform data analytics with an Azure Synapse Analytics workspaceUpload and retrieve data in Azure Cosmos DB and Azure HDInsightProvision and deploy non relational data services in AzureContextualize the knowledge with real life use casesTest your progress with a mock examWho this book is for This book is for data engineers database administrators or aspiring data professionals getting ready to take the DP 900 exam It will also be helpful for those looking for a bit of guidance on how to be better equipped for Azure related job roles such as Azure database administrator or Azure data engineer A basic understanding of core data concepts and relational and non relational data will help you make the most out of this book but they re not a pre requisite

Business Analysis Certification Study Guide , New Trends in Computational Vision and Bio-inspired Computing S. Smys,Abdullah M. Ilyasu,Robert Bestak,Fuqian Shi,2020-09-27 This volume gathers selected peer reviewed original contributions presented at the International Conference on Computational Vision and Bio inspired Computing ICCVBIC conference which was held in Coimbatore India on November 29 30 2018 The works included here offer a rich and diverse sampling of recent developments in the fields of Computational Vision Fuzzy Image Processing and Bio inspired Computing The topics covered include computer vision cryptography and digital privacy

machine learning and artificial neural networks genetic algorithms and computational intelligence the Internet of Things and biometric systems to name but a few The applications discussed range from security healthcare and epidemic control to urban computing agriculture and robotics In this book researchers graduate students and professionals will find innovative solutions to real world problems in industry and society as a whole together with inspirations for further research

Data Quality Rupa Mahanti, 2019-03-18 Good data is a source of myriad opportunities while bad data is a tremendous burden Companies that manage their data effectively are able to achieve a competitive advantage in the marketplace while bad data like cancer can weaken and kill an organization In this comprehensive book Rupa Mahanti provides guidance on the different aspects of data quality with the aim to be able to improve data quality Specifically the book addresses Causes of bad data quality bad data quality impacts and importance of data quality to justify the case for data quality Butterfly effect of data quality A detailed description of data quality dimensions and their measurement Data quality strategy approach Six Sigma DMAIC approach to data quality Data quality management techniques Data quality in relation to data initiatives like data migration MDM data governance etc Data quality myths challenges and critical success factors Students academicians professionals and researchers can all use the content in this book to further their knowledge and get guidance on their own specific projects It balances technical details for example SQL statements relational database components data quality dimensions measurements and higher level qualitative discussions cost of data quality data quality strategy data quality maturity the case made for data quality and so on with case studies illustrations and real world examples throughout About the Author Rupa Mahanti Ph D is a Business and Information Management consultant and has worked in different solution environments and industry sectors in the United States United Kingdom India and Australia She helps clients with activities such as business process mapping information management data quality and strategy Having a work experience academic industry and research of more than a decade and half Rupa has guided a doctoral dissertation and published a large number of research articles She is an associate editor with the journal Software Quality Professional and a reviewer for several international journals This is not the kind of book that you ll read one time and be done with So scan it quickly the first time through to get an idea of its breadth Then dig in on one topic of special importance to your work Finally use it as a reference to guide your next steps learn details and broaden your perspective from the foreword by Thomas C Redman Ph D the Data Doc Dr Mahanti provides a very detailed and thorough coverage of all aspects of data quality management that would suit all ranges of expertise from a beginner to an advanced practitioner With plenty of examples diagrams etc the book is easy to follow and will deepen your knowledge in the data domain I will certainly keep this handy as my go to reference I can t imagine the level of effort and passion that Dr Mahanti has put into this book that captures so much knowledge and experience for the benefit of the reader I would highly recommend this book for its comprehensiveness depth and detail A must have for a data practitioner at any level Clint D Souza CEO and Director CDZM Consulting

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Conference on Database Systems for Advanced Applications (DAS-FAA 2001) Dik Lun Lee,2001 Annotation
Proceedings of an April 2001 conference examining recent progress in XML databases data mining and clustering document and text databases deductive and knowledge bases OLAP indexing techniques mobile computing and databases query languages and processing workflow management visualization and multimedia databases query processing and optimization and heterogeneous and networked databases Specific subjects discussed include distance courseware discrimination based on representative sentence assaying a logical foundation for deductive object oriented databases multi cube computation and facilitating workflow evolution in an advanced object environment Other subjects include a unified retrieval method for multimedia documents and improving backward recovery in workflow systems Lacks a subject index c Book News Inc

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 Oracle Database Upgrade, Migration & Transformation Tips & Techniques Edward Whalen,Jim Czuprynski,2015-06-12 A practical roadmap for database upgrade migration and transformation This Oracle Press guide provides best practices for migrating between different operating systems and platforms transforming existing databases to use different storage or enterprise systems and upgrading databases from one release to the next Based on the expert authors real world experience Oracle Database Upgrade Migration Transformation Tips Techniques will help you choose the best migration path for your project and develop an effective methodology Code examples and detailed checklists are included in this comprehensive resource Leverage the features of Oracle Data Guard to migrate an Oracle Database Use Oracle Recovery Manager transportable tablespace sets and transportable database toolsets to migrate between platforms Migrate databases with export import Use Oracle GoldenGate for zero or near zero downtime migrations Take advantage of the Cross Platform Transportable Tablespace Set utility Migrate to new storage platforms using the features of Oracle Automatic Storage Management Upgrade to Oracle Database 12c with the Database Upgrade Assistant tool Move seamlessly to Oracle s engineered systems Migrate to the cloud Unified Reporting of Commercial and Non-commercial Traffic Accidents Mark Kirk,2001 *DEVELOPMENT OF A*

PROCESS FOR MIGRATION OF DATA FROM RELATIONAL TO NON-RELATIONAL DATABASE FAHAD NOOR

(TP049907),2019 The research highlights the problems of Non Relational databases which are affecting organizations and how these flaws are effecting the developers and indirectly software quality Firstly it focuses on issues faced by developers while adopting Non Relational databases in terms of extra efforts they need to give while development of information systems on application level Lastly the migration process which is the major concern of this research so author s main motive is to come up with the best possible process that can contribute in present researches and also assist developers in future migration of data from relational to Non Relational databases MongoDB In study the quality of software indirectly related to three factors i developers easiness in adopting any new technology ii how much the software and its database is secure and iii mainly the quality of data a particular system has and the quality of data can be comprised due to less secure database and secondly due to inefficient way of data migration from legacy system s databases to new database Nowadays Non Relational databases are in trend because of its high performance and cost effectiveness Therefore keeping the requirement of present era organizations needs for its huge amount of data the author has proposed a Data Migration Process from Relational databases to Non Relational databases Additionally author has provided practicing suggestions for implementation of the proposed data migration process utilizing Agile Methodology and SDLC stages The ultimate goal of this study is to propose a quality data migration process based on MongoDB s structure because it is one of highly adopted document based Non Relational databases

Archiving Aerial Photography and Remote Sensing Data Archaeology Data Service,1999 This guide aims to set out the principles of good practice in the creation and maintenance of digital resources related to aerial photography including both optical and infra red images satellite and airborne remote sensing and the archaeological interpretations made from such data The suggestions offered here aim to ensure that these digital resources can be re used and consequently detailed archiving advice is included

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Databases for Networks and Minicomputers Dimitris N. Chorafas,1982

Computer Applications and Quantitative Methods in Archaeology ,2003

Journal of Database Administration ,1990

Distributed Processing Michael H. Barton,E. L. Dagless,Gerard Louis Reijns,1988

1996 IEEE Aerospace Applications Conference ,1996

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