

# Oracle Streams 11g Data Replication

Design and Manage a Powerful Data Replication Solution

ORACLE  
DATABASE 11g

**Kirtikumar Deshpande**

Consulting Technical Manager, Advanced Technology Solutions, Oracle



# Oracle Streams 11g Data Replication Oracle Press

**Sam Alapati,Charles Kim**

## Oracle Streams 11g Data Replication Oracle Press:

**Oracle Streams 11g Data Replication** Kirtikumar Deshpande,2010-12-22 Master Oracle Streams 11g Replication  
Enable real time information access and data sharing across your distributed framework using the expert information in this Oracle Press guide Oracle Streams 11g Data Replication explains how to set up and administer a unified enterprise data sharing infrastructure Learn how to capture propagate and apply database changes transform data and handle data conflicts Monitoring optimizing and troubleshooting techniques are also covered in this comprehensive volume Understand Oracle Streams components and architecture Gain in depth knowledge about capturing propagating and applying data manipulation language DML and data definition language DDL changes Learn how to access and modify the contents of Logical Change Records Build custom procedures for data transformations Configure Oracle Streams replication for the database schemas and tables Tune Oracle Streams performance for improved throughput Manage and monitor Oracle Streams using Oracle Enterprise Manager Grid Control Learn from several practical examples and scripts *Oracle 11g Streams Implementer's Guide* Ann L. R. McKinnell,Eric Yen,2010-01-19 Annotation From smaller businesses through to huge enterprises \_ users all over the world often require access to data 24 hours a day Distributed database systems proliferate the world of data sharing providing an ability to access real time data anywhere anytime Oracle Streams a built in feature of the Oracle database is a data replication and integration feature critical to the success and wellbeing of enterprises in today s fast moving economy This book provides the reader with solid techniques to master Oracle Streams technology and successfully deploy distributed database systems This book quickly goes over the basics and gets you up and running with a simple Oracle 11g Streams environment It will serve as an excellent companion to the Oracle Streams Administration Guide It is intended for Oracle database architects and administrators and provides in depth discussion on must know information for the design implementation and maintenance of an Oracle Streams environment The book does not attempt to regurgitate all the information in the Oracle Streams Administration Guides but rather provides additional clarification and explanation of design implementation and troubleshooting concepts that are often elusive in Streams documentation It also identifies helpful tools and Oracle resources to add to your knowledge base as well as tried and tested tricks and tips to help you tame Oracle Streams The book starts by introducing and explaining the components of Oracle Streams and how they work together It then moves on logically helping you to determine your distributed environment requirements and design your Streams implementation to meet those requirements Once these concepts are discussed the book moves to configuration and basic implementation examples to help solidify those concepts It then addresses advanced features such as tags down stream capture and conflict resolution You then move on to maintenance techniques such as documenting the environment effectively planning and implementing changes to the environment and monitoring and troubleshooting the environment When you have studied the techniques and completed the hands on examples you will have an understanding of Oracle

Streams core concepts and functionally that will allow you to successfully design implement and maintain an Oracle Streamed environment    **Open Source Software for Statistical Analysis of Big Data: Emerging Research and Opportunities** Segall, Richard S., Niu, Gao, 2020-02-21 With the development of computing technologies in today's modernized world software packages have become easily accessible Open source software specifically is a popular method for solving certain issues in the field of computer science One key challenge is analyzing big data due to the high amounts that organizations are processing Researchers and professionals need research on the foundations of open source software programs and how they can successfully analyze statistical data **Open Source Software for Statistical Analysis of Big Data Emerging Research and Opportunities** provides emerging research exploring the theoretical and practical aspects of cost free software possibilities for applications within data analysis and statistics with a specific focus on R and Python Featuring coverage on a broad range of topics such as cluster analysis time series forecasting and machine learning this book is ideally designed for researchers developers practitioners engineers academicians scholars and students who want to more fully understand in a brief and concise format the realm and technologies of open source software for big data and how it has been used to solve large scale research problems in a multitude of disciplines    [Research Anthology on Usage and Development of Open Source Software](#) Management Association, Information Resources, 2021-06-25 The quick growth of computer technology and development of software caused it to be in a constant state of change and advancement This advancement in software development meant that there would be many types of software developed in order to excel in usability and efficiency Among these different types of software was open source software one that grants permission for users to use study change and distribute it freely Due to its availability open source software has quickly become a valuable asset to the world of computer technology and across various disciplines including education business and library science The Research Anthology on Usage and Development of Open Source Software presents comprehensive research on the design and development of open source software as well as the ways in which it is used The text discusses in depth the way in which this computer software has been made into a collaborative effort for the advancement of software technology Discussing topics such as ISO standards big data fault prediction open collaboration and software development this anthology is essential for computer engineers software developers IT specialists and consultants instructors librarians managers executives professionals academicians researchers and students    [Research Anthology on Big Data Analytics, Architectures, and Applications](#) Management Association, Information Resources, 2021-09-24 Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization With the efficiencies that big data bring to all institutions data is continuously being collected and analyzed However data sets may be too complex for traditional data processing and therefore different strategies must evolve to solve the issue The field of big data works as a valuable tool for many different industries The Research Anthology on Big Data Analytics Architectures and Applications is a

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Mehdi, 2020-07-24 The rise of intelligence and computation within technology has created an eruption of potential applications in numerous professional industries Techniques such as data analysis cloud computing machine learning and others have altered the traditional processes of various disciplines including healthcare economics transportation and politics Information technology in today's world is beginning to uncover opportunities for experts in these fields that they are not yet aware of The exposure of specific instances in which these devices are being implemented will assist other specialists in how to successfully utilize these transformative tools with the appropriate amount of discretion safety and awareness Considering the level of diverse uses and practices throughout the globe the fifth edition of the Encyclopedia of Information Science and Technology series continues the enduring legacy set forth by its predecessors as a premier reference that contributes the most cutting edge concepts and methodologies to the research community The Encyclopedia of Information Science and Technology Fifth Edition is a three volume set that includes 136 original and previously unpublished research chapters that present multidisciplinary research and expert insights into new methods and processes for understanding modern technological tools and their applications as well as emerging theories and ethical controversies surrounding the field of information science Highlighting a wide range of topics such as natural language processing decision support systems and electronic government this book offers strategies for implementing smart devices and analytics into various professional disciplines The techniques discussed in this publication are ideal for IT professionals developers computer scientists

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**Oracle RMAN 11g Backup and Recovery** Robert G. Freeman, Matthew Hart, 2010-05-06 Master Oracle Recovery Master Protect your databases from hardware software and operator failures using the detailed information in this Oracle Press guide Oracle RMAN 11g Backup and Recovery explains how to configure databases generate accurate archives and carry out system restores Work from the command line or Oracle Enterprise Manager automate the backup process perform Oracle Flashback recoveries and integrate cloud computing technology This authoritative resource also shows you how to create reports optimize performance and implement third party administration utilities Set up configure and maintain Oracle Recovery Manager Oracle RMAN Manage physical and virtual media with Oracle Secure Backup Work with Oracle RMAN catalogs packages and control files Use the Amazon Web Services cloud as an offsite storage solution Create online offline and incremental system backups Perform full and partial Oracle RMAN database restores Correct user induced errors with Oracle Flashback Product clone and standby databases on local or remote servers Use Oracle Real Application Clusters and synch and split technology For a complete list of Oracle Press titles visit [www.OraclePressBooks.com](http://www.OraclePressBooks.com)

**Oracle Streams** Madhu Tumma, 2004-12-01 Oracle Streams is a high speed tool that allows synchronization of replicated databases across the globe and an indispensable feature for any company using Oracle for global eCommerce A noted and respected Oracle author Madhu Tumma shares his secrets for achieving high speed replication and data sharing Using proven techniques from mission critical application Tumma show the front line secrets for ensuring success with Oracle Streams From installation through implementation Tumma provides step by step instruction to ensure your success with these powerful Oracle features Tumma walks you safely through the myriad of complex Oracle Streams tasks including the set up of the staging area queue propagation through data hubs customized apply functions rule based data propagation Oracle Streams transformation and lots lots more Best of all Tumma shares working code examples to allow you to easily manage even the most complex Oracle Streams implementation

**Oracle Database 11g New Features** Robert Freeman, 2007-11-05 FOREWORD by Tom Kyte Your Must Have Guide to Everything New in Oracle Database 11g Realize the full potential of Oracle Database 11g with help from the experts Written by Robert G Freeman and with insightful commentary throughout from Arup Nanda this Oracle Press guide offers full details on the architectural changes database administration upgrades availability and recovery revisions security enhancements and programming innovations Every new and updated feature is covered and presented with screenshots code samples tables and charts Find out how to take full advantage of all the new and improved capabilities

of Oracle Database 11g including New Oracle Automatic Storage Management features such as Fast Disk Resync Compatibility Attributes Preferred Mirror Read and Rolling Upgrade components Improved Automated Memory Management capabilities New database design features such as virtual columns tablespace encryption and true table level data compression New Database Advisors for data recovery and repair partitioning and streams performance New tuning features such as Automatic SQL Tuning and SQL Performance Analyzer Enhancements to Oracle RMAN including active database duplication and UNDO backup optimization Improved auditing and security capabilities Advanced BI data warehousing and partitioning features New SQL and PL SQL enhancements     *Oracle Data Integration: Tools for Harnessing Data* Michelle Malcher,Bobby Curtis,Chris Lawless,2015-11-05 Deliver continuous access to timely and accurate BI across your enterprise using the detailed information in this Oracle Press guide Through clear explanations and practical examples a team of Oracle experts shows how to assimilate data from disparate sources into a single unified view Find out how to transform data in real time handle replication and migration and deploy Oracle Data Integrator and Oracle GoldenGate Oracle Data Integration Tools for Harnessing Data offers complete coverage of the latest big data hardware and software solutions Efficiently move data both inside and outside an Oracle environment Map sources to database fields using Data Merge and ETL Export schema through transportable tablespaces and Oracle Data Pump Capture and apply changes across heterogeneous systems with Oracle GoldenGate Seamlessly exchange information between databases using Oracle Data Integrator Correct errors and maximize quality through data cleansing and validation Plan and execute successful Oracle Database migrations and replications Handle high volume transactions with Oracle Big Data Appliance Oracle NoSQL and third party utilities

Mitigating Risk of Application Downtime by Implementing Oracle Streams Replication Boris Udler,2009     [Oracle GoldenGate 11g Handbook](#) Robert G. Freeman,2013-06-05 Master Oracle GoldenGate 11g Enable highly available real time access to enterprise data in heterogeneous environments Featuring hands on workshops Oracle GoldenGate 11g Handbook shows you how to install configure and implement this high performance application You ll learn how to replicate data across Oracle databases and other platforms including MySQL and Microsoft SQL Server and perform near zero downtime migrations and upgrades Monitoring performance tuning and troubleshooting are also discussed in this Oracle Press guide Install and configure Oracle GoldenGate Implement Oracle GoldenGate one way replication Configure multitarget and cascading replication Use bidirectional replication to build a heterogeneous database infrastructure Secure your environment control and manipulate data and prevent errors Configure Oracle GoldenGate for Oracle Clusterware and Oracle Real Application Clusters Use Oracle GoldenGate with MySQL and Microsoft SQL Server Perform near zero downtime upgrades and migrations Use Oracle GoldenGate Monitor and Oracle GoldenGate Director Ensure data quality with Oracle GoldenGate Veridata Implement nondatabase integration options     [Oracle Goldengate 12c](#) Fawzi Alswaimil,2017-06-02 This book covers Oracle Database 11g Oracle Database 12c MySQL and Microsoft SQL Server It includes related Oracle

Database features for readers trying to prototype or implement Oracle GoldenGate. What you will learn from the book Oracle GoldenGate fundamentals modular architecture flexible and scalable configuration and installation options. This is the foundation for all new Oracle GoldenGate users. Oracle GoldenGate initial data load techniques for a heterogeneous environment including initial load using the Recovery Manager RMAN suitable for a VLDB environment. Learn how to configure Oracle GoldenGate instance for query offloading. Reports are diverted to an Oracle Database instance for an operational Data Warehouse running 10x faster. Find out how to configure Oracle GoldenGate for high availability using bi directional topology. Learn how to implement internal and user defined Conflict Detection and Resolution CDR necessary to operate active active Oracle GoldenGate environments. Deployment of Oracle GoldenGate Veridata Installation and configuration of the Repository Installation and configuration of the agent on source and target systems. Configuration of Oracle GoldenGate to determine Out Of Sync tables. Use of Oracle GoldenGate for performing Near Zero Downtime Upgrade Migration. Learn the use of the Recovery Manager RMAN cloning to prepare the database for upgrade. Learn how to configure Oracle GoldenGate on a heterogeneous environment composed of Oracle Database 12c Non CDB MySQL and Oracle Database 12c CDB. Learn how to use Oracle GoldenGate performing data transformation for the operational data store. Learn how to install, configure and use Oracle GoldenGate Management Pack. Learn in depth about Oracle GoldenGate Director and Oracle GoldenGate Monitor. Integration of Oracle GoldenGate with Oracle Data Guard. Migration from Oracle Streams to Oracle GoldenGate. Configuration of Oracle GoldenGate for best performance using Integrated Capture and intermediate systems. Learn how to Configure Data Definition Language DDL replication.

### **Oracle GoldenGate 11g**

**Implementer's Guide** John P. Jeffries, 2011-02-22. Design, install and configure high performance data replication solutions using Oracle GoldenGate with this book and eBook.

**Oracle GoldenGate 11g Implementer's Guide** John P. Jeffries, 2011

*Oracle Database 11g Release 2 High Availability: Maximize Your Availability with Grid Infrastructure, RAC and Data Guard* Scott Jesse, Bill Burton, Bryan Vongray, 2011-04-22. Leverage Oracle Database 11g Release 2 High Availability Features. Protect your critical business assets and achieve maximum database uptime using the detailed information in this Oracle Press guide. Oracle Database 11g Release 2 High Availability Maximize Your Availability with Grid Infrastructure Oracle Real Application Clusters and Oracle Data Guard Second Edition provides cost effective solutions to current availability challenges. Discover how to grid enable your IT framework, roll out Oracle Real Application Clusters, maintain standby databases and deploy Oracle Flashback. Monitoring, tuning and disaster recovery techniques are also covered in this comprehensive resource. Install Oracle Clusterware as part of Oracle's grid infrastructure or upgrade from an earlier version. Build test clusters and hosts using Oracle VM. Work with Oracle Automatic Storage Management and Oracle Automatic Storage Management Cluster File System. Create synchronized standby databases using Oracle Data Guard. Reliably archive and restore data with Oracle Recovery Manager. Use Oracle Flashback to identify and undo user errors. Configure Oracle

Enterprise Manager Grid Control for management of an Oracle maximum availability architecture environment **Oracle**

**11g New Features** Brian Carr, John Garmany, Lutz Hartmann, V. J. Jain, Steve Karam, 2008 Tackling some of the more than 500 updates to Oracle 11g that are intended to automate the inherent complexity of the Oracle engine this guidebook explores all of the new features from the perspective of a working Oracle professional This valuable resource examines only the important Oracle 11g enhancements and includes expert discussion about each new feature why the new feature is important and how to use the new 11g functionality Written by working Oracle experts for both current DBAs and Oracle developers and programmers this flagship book on Oracle 11g explores language and PL SQL DBA features RAC and enhancements performance features new security features and Enterprise Manager **Oracle Database 11g A**

**Beginner's Guide** Ian Abramson, Michael Abbey, Michael J. Corey, 2008-10-01 Get a Solid Foundation in Oracle Database Technology Master Oracle Database 11g fundamentals quickly and easily Using self paced tutorials this book covers core database essentials the role of the administrator high availability and large database features Oracle Database 11g A Beginner's Guide walks you step by step through database setup administration programming backup and recovery In depth introductions to SQL and PL SQL are included Designed for easy learning this exclusive Oracle Press guide offers Core Concepts Oracle Database 11g topics presented in logically organized chapters Critical Skills Lists of specific skills covered in each chapter Projects Practical exercises that show how to apply the critical skills learned in each chapter Progress Checks Quick self assessment sections to check your progress Notes Extra information related to the topic being covered Mastery Checks Chapter ending quizzes to test your knowledge **Oracle Database 11g** Sam Alapati, Charles

Kim, 2008-03-09 Oracle Database 11g New Features for DBAs and Developers is a comprehensive example laden review of the most significant new features and improvements offered by the latest release of Oracle Corporation's flagship database product Learn what's new in Oracle that really counts See actual examples and test run output Make sound decisions on new feature adoption Sift the gold from the silt and discover which new features of the latest release of Oracle's flagship database product are really worth adopting Years of database administration experience from authors Sam Alapati and Charles Kim are combined with sound step by step testing and a heart felt emphasis on what matters in the real world to help you get the most out of Oracle Database 11g

## **Oracle Streams 11g Data Replication Oracle Press** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Oracle Streams 11g Data Replication Oracle Press**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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