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# Microsoft® Big Data **Solutions**

WILEY

# Microsoft Big Data Solutions

**Sagar Lad**



## **Microsoft Big Data Solutions:**

*Microsoft Big Data Solutions* Adam Jorgensen, James Rowland-Jones, John Welch, Dan Clark, Christopher Price, Brian Mitchell, 2014-02-24 Tap the power of Big Data with Microsoft technologies Big Data is here and Microsoft's new Big Data platform is a valuable tool to help your company get the very most out of it This timely book shows you how to use HDInsight along with HortonWorks Data Platform for Windows to store manage analyze and share Big Data throughout the enterprise Focusing primarily on Microsoft and HortonWorks technologies but also covering open source tools Microsoft Big Data Solutions explains best practices covers on premises and cloud based solutions and features valuable case studies Best of all it helps you integrate these new solutions with technologies you already know such as SQL Server and Hadoop Walks you through how to integrate Big Data solutions in your company using Microsoft's HDInsight Server HortonWorks Data Platform for Windows and open source tools Explores both on premises and cloud based solutions Shows how to store manage analyze and share Big Data through the enterprise Covers topics such as Microsoft's approach to Big Data installing and configuring HortonWorks Data Platform for Windows integrating Big Data with SQL Server visualizing data with Microsoft and HortonWorks BI tools and more Helps you build and execute a Big Data plan Includes contributions from the Microsoft and HortonWorks Big Data product teams If you need a detailed roadmap for designing and implementing a fully deployed Big Data solution you'll want Microsoft Big Data Solutions

**Pro Microsoft HDInsight** Debarchan Sarkar, 2014-02-18 The expert's voice in big data Cover

IoT Solutions in Microsoft's Azure IoT Suite Scott Klein, 2017-04-20 Collect and analyze sensor and usage data from Internet of Things applications with Microsoft Azure IoT Suite Internet connectivity to everyday devices such as light bulbs thermostats and even voice command devices such as Google Home and Amazon.com's Alexa is exploding These connected devices and their respective applications generate large amounts of data that can be mined to enhance user friendliness and make predictions about what a user might be likely to do next Microsoft's Azure IoT Suite is a cloud based platform that is ideal for collecting data from connected devices You'll learn in this book about data acquisition and analysis including real time analysis Real world examples are provided to teach you to detect anomalous patterns in your data that might lead to business advantage We live in a time when the amount of data being generated and stored is growing at an exponential rate Understanding and getting real time insight into these data is critical to business IoT Solutions in Microsoft's Azure IoT Suite walks you through a complete end to end journey of how to collect and store data from Internet connected devices You'll learn to analyze the data and to apply your results to solving real world problems Your customers will benefit from the increasingly capable and reliable applications that you'll be able to deploy to them You and your business will benefit from the gains in insight and knowledge that can be applied to delight your customers and increase the value from their business What You'll Learn Go through data generation collection and storage from sensors and devices both relational and non relational Understand from end to end Microsoft's analytic services and where they fit into the

analytical ecosystem Look at the Internet of your things and find ways to discover and draw on the insights your data can provide Understand Microsoft's IoT technologies and services and stitch them together for business insight and advantage Who This Book Is For Developers and architects who plan on delivering IoT solutions data scientists who want to understand how to get better insights into their data and anyone needing or wanting to do real time analysis of data from the Internet of Things

**Applied Microsoft Business Intelligence** Jessica M. Moss, 2015-05-26 Leverage the power of SQL and Office to build a complete enterprise BI solution The business intelligence world is changing Hardware is getting more powerful platforms are getting more capable and decision timeframes are getting shorter Microsoft's SQL Server and Office products provide powerful core BI technologies that allow decision makers who rely on Office for basic analytics to tap into a sophisticated BI toolset for both analysis and reporting Applied Microsoft Business Intelligence reveals the best practices for building complete BI solutions using SQL Server Reporting and Analysis Services along with Excel and SharePoint for a more robust business intelligence framework This book shows you how to use the Microsoft business intelligence building blocks to construct synergetic and complete solutions to suit any organization Organized chronologically by implementation order it guides you through the data layer data transformation and quality the semantic layer and the presentation layer and ties it all together with comprehensive case studies Focusing on best practices rather than specific tools keeps your skills relevant beyond the 2014 SQL release Comprehensive explanations including architecture strengths and weaknesses and practical applications bring you fully up to speed quickly Applied Microsoft Business Intelligence shows you how to Design an effective BI architecture that best fits your organization Develop flexible scalable tabular and multi dimensional models Create interactive visualizations with Power View Explore geographic and temporal data with Power Map Implement self service delivery and an efficient deployment strategy Manage maintain and scale the BI environment

**Data Lake Analytics on Microsoft Azure** Harsh Chawla, Pankaj Khattar, 2020-11-15 Get a 360 degree view of how the journey of data analytics solutions has evolved from monolithic data stores and enterprise data warehouses to data lakes and modern data warehouses You will This book includes comprehensive coverage of how To architect data lake analytics solutions by choosing suitable technologies available on Microsoft Azure The advent of microservices applications covering ecommerce or modern solutions built on IoT and how real time streaming data has completely disrupted this ecosystem These data analytics solutions have been transformed from solely understanding the trends from historical data to building predictions by infusing machine learning technologies into the solutions Data platform professionals who have been working on relational data stores non relational data stores and big data technologies will find the content in this book useful The book also can help you start your journey into the data engineer world as it provides an overview of advanced data analytics and touches on data science concepts and various artificial intelligence and machine learning technologies available on Microsoft Azure What Will You Learn You will understand the Concepts of data lake analytics the modern data warehouse and advanced data analytics

Architecture patterns of the modern data warehouse and advanced data analytics solutions Phases such as Data Ingestion Store Prep and Train and Model and Serve of data analytics solutions and technology choices available on Azure under each phase In depth coverage of real time and batch mode data analytics solutions architecture Various managed services available on Azure such as Synapse analytics event hubs Stream analytics CosmosDB and managed Hadoop services such as Databricks and HDInsight Who This Book Is For Data platform professionals database architects engineers and solution architects *Big Data Software Solutions by IBM, Oracle, SAP and Microsoft. A Market Overview* Wolfgang Steinhart, 2017-09-05 Seminar paper from the year 2017 in the subject Computer Science Software grade 1.0 California Lutheran University Business Administration course MBA for Executives language English abstract In this research paper the author would like to take a look at the current Big Data vendors and present the status quo of the leading Big Data solutions The Big Data market has grown significantly in the last years The offered solutions are very sophisticated and cover a broad range of user requirements and have become more user friendly In the recent years several well known IT companies released new products that specialize in Big Data analysis The desire to analyze more and more data to gain a better understanding of e.g. customer needs manufacturing efficiencies or e.g. to create predictive analysis based on past consumer behavior drove the need to enhance the functionality of existing business intelligence solutions towards a more open Big Data architecture that allows the analysis of massive amounts of structured and unstructured data **Cloud Data Design, Orchestration, and Management Using Microsoft Azure** Francesco Diaz, Roberto Freato, 2018-06-28 Use Microsoft Azure to optimally design your data solutions and save time and money Scenarios are presented covering analysis design integration monitoring and derivatives This book is about data and provides you with a wide range of possibilities to implement a data solution on Azure from hybrid cloud to PaaS services Migration from existing solutions is presented in detail Alternatives and their scope are discussed Five of six chapters explore PaaS while one focuses on SQL Server features for cloud and relates to hybrid cloud and IaaS functionalities What You'll Learn Know the Azure services useful to implement a data solution Match the products/services used to your specific needs Fit relational databases efficiently into data design Understand how to work with any type of data using Azure hybrid and public cloud features Use non relational alternatives to solve even complex requirements Orchestrate data movement using Azure services Approach analysis and manipulation according to the data life cycle Who This Book Is For Software developers and professionals with a good data design background and basic development skills who want to learn how to implement a solution using Azure data services

*Microsoft SQL Server 2012 Master Data Services 2/E* Tyler Graham, 2012-10-16 Deploy and Maintain an Integrated MDS Architecture Harness your master data and grow revenue while reducing administrative costs Thoroughly revised to cover the latest MDS features Microsoft SQL Server 2012 Master Data Services Second Edition shows how to implement and manage a centralized customer focused MDS framework See how to accurately model business processes load and cleanse

data enforce business rules eliminate redundancies and publish data to external systems Security SOA and Web services and legacy data integration are also covered in this practical guide Install Microsoft SQL Server 2012 Master Data Services Build custom MDS models and entity-specific staging tables Load and cleanse data from disparate sources Logically group assets into collections and hierarchies Ensure integrity using versioning and business rules Configure security at functional object and attribute levels Extend functionality with SOA and Web services Facilitate collaboration using the MDS Excel Add In Export data to subscribing systems through SQL views

**Cloud Scale Analytics with Azure Data Services** Patrik Borosch, 2021-07-23 A practical guide to implementing a scalable and fast state of the art analytical data estate Key Features Store and analyze data with enterprise grade security and auditing Perform batch streaming and interactive analytics to optimize your big data solutions with ease Develop and run parallel data processing programs using real world enterprise scenarios Book Description Azure Data Lake the modern data warehouse architecture and related data services on Azure enable organizations to build their own customized analytical platform to fit any analytical requirements in terms of volume speed and quality This book is your guide to learning all the features and capabilities of Azure data services for storing processing and analyzing data structured unstructured and semi structured of any size You will explore key techniques for ingesting and storing data and perform batch streaming and interactive analytics The book also shows you how to overcome various challenges and complexities relating to productivity and scaling Next you will be able to develop and run massive data workloads to perform different actions Using a cloud based big data modern data warehouse analytics setup you will also be able to build secure scalable data estates for enterprises Finally you will not only learn how to develop a data warehouse but also understand how to create enterprise grade security and auditing big data programs By the end of this Azure book you will have learned how to develop a powerful and efficient analytical platform to meet enterprise needs What you will learn Implement data governance with Azure services Use integrated monitoring in the Azure Portal and integrate Azure Data Lake Storage into the Azure Monitor Explore the serverless feature for ad hoc data discovery logical data warehousing and data wrangling Implement networking with Synapse Analytics and Spark pools Create and run Spark jobs with Databricks clusters Implement streaming using Azure Functions a serverless runtime environment on Azure Explore the predefined ML services in Azure and use them in your app Who this book is for This book is for data architects ETL developers or anyone who wants to get well versed with Azure data services to implement an analytical data estate for their enterprise The book will also appeal to data scientists and data analysts who want to explore all the capabilities of Azure data services which can be used to store process and analyze any kind of data A beginner level understanding of data analysis and streaming will be required

*Modern Data Architecture on Azure* Sagar Lad, 2023 This book is an exhaustive guide to designing and implementing data solutions on Azure It covers the process of managing data from end to end starting from data collection all the way through transformation distribution and consumption Modern Data Architecture on Azure begins

with an introduction to the fundamentals of data management followed by a demonstration of how to build relational and non relational data solutions on Azure Here you will learn data processing for complex analysis and how to work with CSV and JSON files Moving forward you will learn the foundational concepts of big data architecture along with data management patterns and technology options offered by Azure From there you ll be walked through the data architecture process including data consortium on Azure enterprise data governance and much more The book culminates with a deep dive into data architecture frameworks with data modeling After reading this book you will have a thorough understanding of data design and analytics using Azure allowing you to collect and analyze massive amounts of data to optimize business performance forecast future results and more You will Understand the fundamentals of data architecture including data management data handling ethics data governance and metadata management Analyze and understand business needs to choose the right Azure services and make informed business decisions Understand Azure Cloud Data design patterns for relational and non relational data batch real time processing and ETL ELT pipelines Modernize data architecture using Azure to leverage data and AI to enable digital transformation by securing and optimizing overall data lifecycle management

**Mastering Azure Analytics** Zoiner Tejada,2017-04-06 Helps users understand the breadth of Azure services by organizing them into a reference framework they can use when crafting their own big data analytics solution

*Understanding Azure Data Factory* Sudhir Rawat,Abhishek Narain,2018-12-18 Improve your analytics and data platform to solve major challenges including operationalizing big data and advanced analytics workloads on Azure You will learn how to monitor complex pipelines set alerts and extend your organization s custom monitoring requirements This book starts with an overview of the Azure Data Factory as a hybrid ETL ELT orchestration service on Azure The book then dives into data movement and the connectivity capability of Azure Data Factory You will learn about the support for hybrid data integration from disparate sources such as on premise cloud or from SaaS applications Detailed guidance is provided on how to transform data and on control flow Demonstration of operationalizing the pipelines and ETL with SSIS is included You will know how to leverage Azure Data Factory to run existing SSIS packages As you advance through the book you will wrap up by learning how to create a single pane for end to end monitoring which is a key skill in building advanced analytics and big data pipelines What You ll Learn Understand data integration on Azure cloud Build and operationalize an ADF pipeline Modernize a data warehouse Be aware of performance and security considerations while moving data Who This Book Is ForData engineers and big data developers ETL extract transform load developers also will find the book useful in demonstrating various operations

**Microsoft SQL Server 2014 Query Tuning & Optimization** Benjamin Nevarez,2014-10-10 Optimize Microsoft SQL Server 2014 queries and applications Microsoft SQL Server 2014 Query Tuning Optimization is filled with ready to use techniques for creating high performance queries and applications The book describes the inner workings of the query processor so you can write better queries and provide the query processor with the

quality information it needs to produce efficient execution plans You ll also get tips for troubleshooting underperforming queries In Memory OLTP Hekaton a key new feature of SQL Server 2014 is fully covered in this practical guide Understand how the query optimizer works Troubleshoot queries using extended events SQL trace dynamic management views DMVs the data collector and other tools Work with query operators for data access joins aggregations parallelism and updates Speed up queries and dramatically improve application performance by creating the right indexes Understand statistics and how to detect and fix cardinality estimation errors Maximize OLTP query performance using In Memory OLTP Hekaton features including memory optimized tables and natively compiled stored procedures Monitor and promote plan caching and reuse to improve application performance Improve the performance of data warehouse queries using columnstore indexes Handle query processor limitations with hints and other methods      Processing Big Data with Azure HDInsight Vinit

Yadav,2017-05-29 Get a jump start on using Azure HDInsight and Hadoop Ecosystem components As most Hadoop and Big Data projects are written in either Java Scala or Python this book minimizes the effort to learn another language and is written from the perspective of a .NET developer Hadoop components are covered including Hive Pig HBase Storm and Spark on Azure HDInsight and code samples are written in .NET only Processing Big Data with Azure HDInsight covers the fundamentals of big data how businesses are using it to their advantage and how Azure HDInsight fits into the big data world This book introduces Hadoop and big data concepts and then dives into creating different solutions with HDInsight and the Hadoop Ecosystem It covers concepts with real world scenarios and code examples making sure you get hands on experience The best way to utilize this book is to practice while reading After reading this book you will be familiar with Azure HDInsight and how it can be utilized to build big data solutions including batch processing stream analytics interactive processing and storing and retrieving data in an efficient manner What You ll Learn Understand the fundamentals of HDInsight and Hadoop Work with HDInsight cluster Query with Apache Hive and Apache Pig Store and retrieve data with Apache HBase Stream data processing using Apache Storm Work with Apache Spark Who This Book Is For Software developers technical architects data scientists and Hadoop administrators who want to develop on Microsoft s managed Hadoop offering HDInsight      **Big Data Analytics with Microsoft: Scalable Intelligence Using Azure Synapse, Fabric, and Power BI** Swarup Panda,2025-08-07 This book is a complete guide for professionals and data enthusiasts who want to make the most of Microsoft s cloud native ecosystem for big data analytics It covers essential services like Azure Synapse Analytics Microsoft Fabric and Power BI The book provides a full framework for scalable data processing and smart decision making Readers will learn best practices for data ingestion transformation storage modeling and visualization They will also see how to combine data engineering data science and business intelligence workflows within a single Microsoft environment With practical examples and architectural designs this book helps readers build secure effective and cost efficient analytics solutions that meet the needs of today s enterprises      552241A Microsoft Azure Big



Data Analytics Solutions Neil Tucker, Jr., 2023-05-17 552241A is a two day instructor led course that is intended for data professionals who want to expand their knowledge about creating big data analytic solutions on Microsoft Azure Students will learn how to design solutions for batch and real time data processing Different methods of using Azure will be discussed and practiced in lab exercises such as Azure CLI Azure PowerShell Azure Portal Azure Cloud Shell and Python **Azure Databricks Cookbook** Phani Raj, Vinod Jaiswal, 2021-09-17 Get to grips with building and productionizing end to end big data solutions in Azure and learn best practices for working with large datasets Key Features Integrate with Azure Synapse Analytics Cosmos DB and Azure HDInsight Kafka Cluster to scale and analyze your projects and build pipelines Use Databricks SQL to run ad hoc queries on your data lake and create dashboards Productionize a solution using CI CD for deploying notebooks and Azure Databricks Service to various environments Book Description Azure Databricks is a unified collaborative platform for performing scalable analytics in an interactive environment The Azure Databricks Cookbook provides recipes to get hands on with the analytics process including ingesting data from various batch and streaming sources and building a modern data warehouse The book starts by teaching you how to create an Azure Databricks instance within the Azure portal Azure CLI and ARM templates You ll work through clusters in Databricks and explore recipes for ingesting data from sources including files databases and streaming sources such as Apache Kafka and EventHub The book will help you explore all the features supported by Azure Databricks for building powerful end to end data pipelines You ll also find out how to build a modern data warehouse by using Delta tables and Azure Synapse Analytics Later you ll learn how to write ad hoc queries and extract meaningful insights from the data lake by creating visualizations and dashboards with Databricks SQL Finally you ll deploy and productionize a data pipeline as well as deploy notebooks and Azure Databricks service using continuous integration and continuous delivery CI CD By the end of this Azure book you ll be able to use Azure Databricks to streamline different processes involved in building data driven apps What you will learn Read and write data from and to various Azure resources and file formats Build a modern data warehouse with Delta Tables and Azure Synapse Analytics Explore jobs stages and tasks and see how Spark lazy evaluation works Handle concurrent transactions and learn performance optimization in Delta tables Learn Databricks SQL and create real time dashboards in Databricks SQL Integrate Azure DevOps for version control deploying and productionizing solutions with CI CD pipelines Discover how to use RBAC and ACLs to restrict data access Build end to end data processing pipeline for near real time data analytics Who this book is for This recipe based book is for data scientists data engineers big data professionals and machine learning engineers who want to perform data analytics on their applications Prior experience of working with Apache Spark and Azure is necessary to get the most out of this book **Smart Business Intelligence Solutions with Microsoft SQL Server 2008** Lynn Langit, 2009 Get the end to end instruction you need to design develop and deploy more effective data integration reporting and analysis solutions using SQL Server 2008 whether you re new to business intelligence BI programming or a seasoned pro With real

world examples and insights from an expert team you'll master the concepts, tools and techniques for building solutions that deliver intelligence and business value exactly where users want it. Discover how to Manage the development life cycle and build a BI team. Dig into SQL Server Analysis Services, Integration Services and Reporting Services. Navigate the Business Intelligence Development Studio (BIDS). Write queries that rank, sort and drill down on sales data. Develop extract, transform and load (ETL) solutions. Add a source code control system. Help secure packages for deployment via encryption and credentials. Use MDX and DMX Query Designers to build reports based on OLAP cubes and data mining models. Create and implement custom objects using .NET code. View reports in Microsoft Office Excel and Office SharePoint Server.

**Stream Analytics with Microsoft Azure** Anindita Basak, Krishna Venkataraman, Ryan Murphy, Manpreet

Singh, 2017-12-01. Develop and manage effective real time streaming solutions by leveraging the power of Microsoft Azure. About This Book: Analyze your data from various sources using Microsoft Azure Stream Analytics. Develop, manage and automate your stream analytics solution with Microsoft Azure. A practical guide to real time event processing and performing analytics on the cloud. Who This Book Is For: If you are looking for a resource that teaches you how to process continuous streams of data in real time, this book is what you need. A basic understanding of the concepts in analytics is all you need to get started with this book. What You Will Learn: Perform real time event processing with Azure Stream Analytics. Incorporate the features of Big Data Lambda architecture pattern in real time data processing. Design a streaming pipeline for storage and batch analysis. Implement data transformation and computation activities over stream of events. Automate your streaming pipeline using Powershell and the .NET SDK. Integrate your streaming pipeline with popular Machine Learning and Predictive Analytics modelling algorithms. Monitor and troubleshoot your Azure Streaming jobs effectively. In Detail: Microsoft Azure is a very popular cloud computing service used by many organizations around the world. Its latest analytics offering, Stream Analytics, allows you to process and get actionable insights from different kinds of data in real time. This book is your guide to understanding the basics of how Azure Stream Analytics works and building your own analytics solution using its capabilities. You will start with understanding what Stream Analytics is and why it is a popular choice for getting real time insights from data. Then you will be introduced to Azure Stream Analytics and see how you can use the tools and functions in Azure to develop your own Streaming Analytics. Over the course of the book, you will be given comparative analytic guidance on using Azure Streaming with other Microsoft Data Platform resources such as Big Data Lambda Architecture, integration for real time data analysis and differences of scenarios for architecture designing with Azure HDInsight, Hadoop clusters with Storm or Stream Analytics. The book also shows you how you can manage, monitor and scale your solution for optimal performance. By the end of this book, you will be well versed in using Azure Stream Analytics to develop an efficient analytics solution that can work with any type of data. Style and approach: A comprehensive guidance on developing real time event processing with Azure Stream Analytics. *Azure Data Factory Cookbook* Dmitry Anoshin, Dmitry Foshin, Roman Storchak, Xenia

Ireton,2020-12-24 Solve real world data problems and create data driven workflows for easy data movement and processing at scale with Azure Data Factory Key FeaturesLearn how to load and transform data from various sources both on premises and on cloudUse Azure Data Factory s visual environment to build and manage hybrid ETL pipelinesDiscover how to prepare transform process and enrich data to generate key insightsBook Description Azure Data Factory ADF is a modern data integration tool available on Microsoft Azure This Azure Data Factory Cookbook helps you get up and running by showing you how to create and execute your first job in ADF You ll learn how to branch and chain activities create custom activities and schedule pipelines This book will help you to discover the benefits of cloud data warehousing Azure Synapse Analytics and Azure Data Lake Gen2 Storage which are frequently used for big data analytics With practical recipes you ll learn how to actively engage with analytical tools from Azure Data Services and leverage your on premise infrastructure with cloud native tools to get relevant business insights As you advance you ll be able to integrate the most commonly used Azure Services into ADF and understand how Azure services can be useful in designing ETL pipelines The book will take you through the common errors that you may encounter while working with ADF and show you how to use the Azure portal to monitor pipelines You ll also understand error messages and resolve problems in connectors and data flows with the debugging capabilities of ADF By the end of this book you ll be able to use ADF as the main ETL and orchestration tool for your data warehouse or data platform projects What you will learnCreate an orchestration and transformation job in ADFDevelop execute and monitor data flows using Azure SynapseCreate big data pipelines using Azure Data Lake and ADFBuild a machine learning app with Apache Spark and ADFMigrate on premises SSIS jobs to ADFIntegrate ADF with commonly used Azure services such as Azure ML Azure Logic Apps and Azure FunctionsRun big data compute jobs within HDInsight and Azure DatabricksCopy data from AWS S3 and Google Cloud Storage to Azure Storage using ADF s built in connectorsWho this book is for This book is for ETL developers data warehouse and ETL architects software professionals and anyone who wants to learn about the common and not so common challenges faced while developing traditional and hybrid ETL solutions using Microsoft s Azure Data Factory You ll also find this book useful if you are looking for recipes to improve or enhance your existing ETL pipelines Basic knowledge of data warehousing is expected

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