



# **How to Create OData Service for Analytic Queries**

**Applicable Releases:**

**SAP NetWeaver Gateway 2.0**

**Version 1.0**

**December 2012**

# How To Create Odata Services For Analytic Queries Sap

**Dmitry Kuznetsov**



## **How To Create Odata Services For Analytic Queries Sap:**

SAP ABAP 7.5 Optimization for HANA Pratik Prakash Kasralikar, 2026-01-01 In the evolving landscape of SAP development performance is no longer just a nice to have it's a necessity. With the power of SAP HANA and the enhancements introduced in ABAP 7.5, developers are now equipped to rethink how applications are built, executed, and optimized. This book is your guide to that transformation. We begin by understanding the core shift: moving data-intensive operations directly into the HANA database. When implemented correctly, this code pushdown philosophy dramatically reduces data transfer and processing overhead. AMDP (ABAP Managed Database Procedures) in the database processing engine enables us to write complex logic directly in SQLScript, harnessing HANA's parallel processing capabilities. We focus on crafting efficient AMDP procedures by adopting set-based operations and minimizing unnecessary data movement. Next, we explore Core Data Services (CDS) Views, our go-to data modeling tool. CDS Views are not just simple database views; they act as semantic layers that define how our applications interact with data. We learn to create optimized CDS Views by leveraging associations, annotations, and table functions, enabling us to build reusable, high-performance data models. These views simplify complex queries, improve data consistency, and enhance application flexibility. We then turn to Native SQL, our direct line to the HANA database. While AMDP and CDS Views provide powerful abstractions, Native SQL offers ultimate control for specialized tasks. We embed Native SQL within AMDP procedures to access database-specific features and fine-tune performance for critical operations. Along the way, we apply best practices for writing efficient queries, with a strong focus on indexing, join strategies, and precise data filtering. Throughout this journey, we emphasize the importance of rigorous testing and proactive monitoring. Just like a race car undergoes extensive testing before hitting the track, our ABAP applications require careful validation to ensure accuracy and optimal performance. We explore techniques for unit testing AMDP procedures, validating CDS Views, and monitoring query performance. We also look at strategies for detecting and addressing potential bottlenecks before they affect end users. SAP ABAP 7.5 Optimization for HANA is not just about writing faster code; it's about fundamentally rethinking how we develop applications. By embracing code pushdown, leveraging AMDP, CDS Views, and Native SQL, and implementing robust testing and monitoring strategies, we build ABAP applications that are not only faster but also more scalable, maintainable, and adaptable to the ever-evolving demands of modern business. You Will Learn how to implement the code pushdown philosophy, moving data-intensive operations directly into the HANA database to reduce data transfer and processing overhead. Understand how to create optimized CDS Views leveraging associations, annotations, and table functions to build reusable, high-performance data models that simplify complex queries and improve data consistency. Explore how to write complex logic directly in SQLScript using AMDP, harnessing HANA's parallel processing capabilities, and using Native SQL for specialized tasks, accessing database-specific features to optimize performance. This Book is For ABAP Developers, SAP Consultants, and Architects, and IT Managers, and Technical Leads.

## **SAP S/4HANA Commercial Project Management: A Complete Guide to Configuration and Implementation**

PAVAN KANCHI, DR BRAJESH KUMAR UMRAO, PREFACE The landscape of project management within the enterprise has evolved dramatically in recent years driven by increasing demands for agility transparency and real time decision making SAP S 4HANA Commercial Project Management responds to these challenges by providing a unified cloud ready solution designed specifically for the unique needs of commercial project driven businesses Whether you oversee capital intensive construction initiatives professional services engagements or complex manufacturing roll outs this book will guide you through every step of configuring and implementing S 4HANA Commercial Project Management to deliver projects on time on budget and in full compliance with corporate standards This guide is the culmination of years of hands on experience gained from consulting engagements client workshops and internal SAP development cycles It distills best practices proven processes and common pitfalls into a coherent framework that both new adopters and seasoned SAP professionals can apply immediately You will find clear explanations of key concepts such as project definitions work breakdown structures billing milestones and revenue recognition rules and learn how they map to S 4HANA s data model and user interfaces Each chapter balances theoretical underpinnings with practical configuration exercises so you can not only understand what needs to be done but also how to do it Throughout this book you will learn to Establish the foundational master data projects WBS elements networks and activities and integrate them seamlessly with finance procurement and human resources Design and implement billing structures that reflect commercial contracts performance obligations and milestone plans ensuring accurate invoice and timely revenue recognition Configure time and expense management to capture actuals compare planned versus actual performance and drive proactive project control Leverage embedded analytics and reporting tools to gain real time visibility into project health profitability and resource utilization Illustrative case studies demonstrate how organizations across industries have transformed their project management practices achieving faster close cycles improved cash flow and tighter governance Detailed configuration screenshots decision trees and validation checks guide you through system setup while troubleshooting tips help you navigate common challenges during implementation Whether you are an implementation consultant IT architect project controller or business stakeholder this book equips you with the knowledge and tools to unlock the full potential of SAP S 4HANA Commercial Project Management By following the end to end implementation roadmap laid out here you will build a scalable and flexible foundation for managing complex revenue generating projects in the digital era We invite you to embark on this journey and discover how SAP S 4HANA Commercial Project Management can elevate your organization s project delivery to new heights Let us begin Authors *Securing and Scaling SAP on Microsoft Azure: Cloud-Native Architecture, Reliability Engineering, and AI-Driven Operations* Sheetal Joyce, 2026-02-21 This book provides a practical and architecture focused guide to deploying and securing SAP workloads on Microsoft Azure It begins with the foundations of SAP in the cloud covering workload characteristics migration models

governance strategies and Azure infrastructure essentials The book then explores cloud native design principles including compute storage networking containerization automation high availability and hybrid or multi region architectures A dedicated section on security architecture addresses identity management zero trust networking encryption compliance monitoring and audit readiness Designed for SAP architects cloud engineers IT leaders and enterprise decision makers this book delivers structured guidance for building secure scalable and resilient SAP environments on Azure

**Controlling in SAP S/4HANA Finance Simplified** Narayanan Veeriah, 2025-03-09 DESCRIPTION SAP S/4HANA Finance is revolutionizing financial management and mastering its Controlling module is essential for both beginners and professionals seeking to optimize financial processes This book is the latest and comprehensive guide to SAP Controlling Presented in an easy to understand format it traces the history and evolution of SAP application from its initial version of just a financial accounting application to the current all encompassing in memory processing enterprise resource planning application on the HANA platform Besides an overview of SAP Controlling it discusses the building blocks the Controlling methods before dealing with the various application components like Cost Center Accounting Internal Orders Activity Based Costing Product Cost Controlling and Profitability Analysis It includes multiple examples and illustrations making complex concepts simple to learn The answers are replete with numerous screenshots from a live SAP S/4HANA Finance system enhancing the learning experience It also provides menu paths and Transaction Codes for system Customization and application task execution By the end of this book you would have earned the wealth of information references and tips and tricks to help you excel in your day to day tasks with SAP whether you are learning configuring or utilizing the SAP Finance application WHAT YOU WILL LEARN Basics of SAP along with features of SAP HANA SAP S/4HANA and SAP S/4HANA Finance An overview of SAP Controlling CO components CO evolution FI versus CO and Universal Journal functionality Learn all about SAP Fiori CO planning cost center planning internal order planning project planning and Fiori apps for CO Understand Overhead Cost Controlling CO OM including Cost Center Accounting CO OM CCA Internal Orders CO OM OPA and Activity Based Costing CO OM ABC Learn Product Cost Controlling CO PC and Profitability Analysis CO PA in detail Leverage Controlling Apps for management accounting WHO THIS BOOK IS FOR This book is a versatile resource for everyone in SAP SAP Finance from beginners and junior consultants to senior consultants an end user or a SAP learner Additionally it is an invaluable resource for those aspiring to reach new professional heights in SAP

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*First Steps in SAP S/4HANA Embedded Analytics* Dmitry Kuznetsov, Dive into this expertly written introduction to embedded analytics in SAP Get quickly up to speed on the most important embedded analytics concepts and tools available in SAP S/4HANA Walk through project

activities and get the answer to the question how much of SAP standard can I use Obtain an overview of front end tools including KPIs multidimensional reporting client and view query browser Learn how to build your own KPIs and reports Explore custom query options including those based on CDS technology and BW modeling tools Get practical advice for managing roles and authorizations Dive into a list of the most frequently asked questions Explore SAP S 4HANA Embedded Analytics Look at front end tools including multidimensional clients Learn how to build your own KPIs and reports Identify custom query options

**SAP S/4HANA Embedded Analytics** Freek Keijzer,2021 Imagine you are a business user consultant or developer about to enter an SAP S 4HANA implementation project You are well versed with SAP s product portfolio and you know that the preferred reporting option in S 4HANA is embedded analytics But what exactly is embedded analytics And how can it be implemented And who can do it a business user a functional consultant specialized in financial or logistics processes Or does a business intelligence expert or a programmer need to be involved Good questions This book will answer these questions one by one It will also take you on the same journey that the implementation team needs to follow for every reporting requirement that pops up start with assessing a more standard option and only move on to a less standard option if the requirement cannot be fulfilled In consecutive chapters analytical apps delivered by SAP apps created using Smart Business Services and Analytical Queries developed either using tiles or in a development environment are explained in detail with practical examples The book also explains which option is preferred in which situation The book covers topics such as in memory computing cloud UX OData agile development and more Author Freek Keijzer writes from the perspective of an implementation consultant focusing on functionality that has proven itself useful in the field Practical examples are abundant ranging from codeless to hardcore coding You will Know the difference between static reporting and interactive querying on real time data Understand which options are available for analytics in SAP S 4HANA Understand which option to choose in which situation Know how to implement these options

**SAP S/4HANA Analytical Applications with Fiori Elements** Uladzislau Pralat,2020-09-16 With a focus on user experience this guide teaches readers how to successfully create SAP S 4HANA Fiori elements analytical applications Follow step by step implementation instructions for three popular Fiori analytical applications Open Orders Accounts Receivable and Credit Limit Utilization Walk through the process of understanding user requirements performing fit and gap analyses deriving analytical insights and creating applications Identify reusable solutions that will save time and improve the quality of your developments Review strategies for improving performance and the user experience Learn the analytical capabilities of Fiori elements templates Master metadata driven development using OData services and annotations based on CDS views Integrate Fiori elements applications to create drill downs and insight to action scenarios Become more productive and improve quality with reusable solutions

[ABAP RESTful Programming Model](#) Stefan Haas (Information technology consultant),Stefan Haas, (in,Bince Mathew,2019 You ve worked with ABAP SAP Fiori and OData now see how these technologies and more come together in the ABAP RESTful

programming model Build on your expertise to create cloud ready applications for SAP S 4HANA and deploy applications to the SAP Fiori launchpad Manage applications with Git version control automated testing and continuous integration Make the new model work for you 1 ABAP RESTful programming model 2 End to end development 3 SAP S 4HANA 4 SAP Fiori Elements 5 Business objects 6 Deployment 7 Core data services CDS 8 OData services 9 Automated testing 10 Continuous integration 11 SAP Cloud Platform a ABAP RESTful Programming Model Develop web based SAP HANA optimized ABAP applications for SAP S 4HANA Master the new ABAP RESTful programming model from queries business objects and business services to its relationship to SAP Fiori and SAP Gateway b SAP Fiori Elements and Freestyle Applications Get the step by step instructions you need to create list reports overview pages analytical list pages and freestyle applications See how the ABAP RESTful programming model incorporates core data services business object behaviors OData and more c Deployment and Operations Once your applications are developed deploy them to the SAP Fiori launchpad Implement Git version control automated backend and frontend testing and continuous integration

**SAP Gateway and OData** Carsten Bönner, 2016 Connect your SAP system and the world of OData with this comprehensive guide to SAP Gateway Begin with the basics then walk through the steps in creating SAP Gateway and OData services Expand your skills further with how to on developing SAPUI5 apps with the SAP Web IDE building SAP Fiori mobile and enterprise applications and performing administrative tasks for lifecycle management and security Explore the latest trends and technologies and map out your OData future a Deployment Installation Configuration Get started Discover the various deployment options for SAP Gateway and get step by step instructions for installation and configuration b SAP Gateway and OData Services Create Walk through the specific tools for and steps in creating SAP Gateway and OData services Then learn how to extend your existing services including redefining services and customizing SAP Fiori apps c Application Development Develop Learn how OData and SAP Gateway are used in SAPUI5 SAP Fiori mobile social media and enterprise applications Highlights include SAP Gateway installation and deployment Service creation and deployment Mobile development Social media development Security Lifecycle management SAPUI5 SAP Web IDE SAP Fiori SAP HANA

[SAP/ABAP HANA PROGRAMMING](#) Sudipta Malakar, 2018-06-06 DESCRIPTION The book has been written in such a way that the concepts are explained in detail giving adequate emphasis on examples To provide clarity on the programming examples logic is properly explained and discussed by using comments in the program itself The topics covered in this book include starting the software using snapshots of the same and writing programs Simple to complex SAP ABAP HANA examples are provided in detail considering the requirement of IT consultants the basic idea of developing projects in it The examples provided in this book are user focused and are provided through sections figures and examples KEY FEATURES Comprehensive coverage of SAP ABAP HANA with emphasis on real time case studies Practical examples along with Screen personas SAP Fiori cloud OPEN SQL Native SQL ADBC CDS support in SAP NW ABAP 7 4 SP5 SAP HANA Studio performance enabler Rules guidelines Simple language

crystal clear approach straightforward comprehensible presentation Concepts are duly supported with examples Topic coverage with the aim to fill the skill gap between industry and academia SAP Business Suite powered by SAP HANA are helpful for developing projects for IT consultants

**Mastering SAP ABAP: S/4 HANA and Workflow Automation**  
SANDHYARANI GANIPANENI DAKSHA BORADA ,2024-12-22

In the era of digital transformation mastering SAP ABAP has become a critical skill for organizations leveraging SAP S 4 HANA to streamline business processes and achieve operational excellence This book Mastering SAP ABAP S 4 HANA and Workflow Automation is designed to empower SAP professionals developers and consultants with the knowledge and tools to harness the full potential of ABAP for modern enterprise applications This comprehensive guide explores the evolving landscape of ABAP programming in the context of S 4 HANA and workflow automation bridging the gap between traditional practices and the cutting edge capabilities of SAP s newest offerings From foundational programming concepts to advanced techniques the content is tailored to meet the needs of both beginners and seasoned professionals looking to enhance their skill set The chapters in this book are meticulously structured to provide a seamless learning experience We begin with the core principles of ABAP and progressively delve into advanced topics such as CDS views OData services and the integration of ABAP with Fiori applications A special focus is given to workflow automation in S 4 HANA offering insights into streamlining processes minimizing manual interventions and optimizing enterprise operations Practical examples real world scenarios and hands on exercises are incorporated throughout to ensure that readers can apply their learning effectively Our goal is to provide a resource that not only imparts technical expertise but also fosters a deeper understanding of the strategic role of ABAP in modernizing enterprise landscapes We have drawn on the latest SAP methodologies industry best practices and insights from experts to craft a book that equips readers with both theoretical and practical expertise We believe this book will serve as a trusted companion for anyone striving to excel in the dynamic world of SAP development Whether you are a developer consultant or IT manager we hope this book will inspire you to innovate and drive impactful results in your SAP projects Thank you for choosing to embark on this learning journey with us

Authors [SAP Gateway 2.0 and OData](#) Ralph Waldmann,2020-05-17 2020 UPDATE SAP Gateway 2 0 features Become an Expert Fast in a Hot Demanded Market and Reap the Rewards Do you know that OData REST integration is one of the most hot demanded areas in system connections Do you know that this area is not only demanded but also a market that lacks expert resources Do you know that by exposing SAP Business Suite functionality as REST based OData services SAP Gateway enables SAP applications to share data with a wide range of devices technologies and platforms in a way that is easy to understand and consume Your practical guide This step by step practical guide will give you the version 1 and version 2 of the SAP Gateway features In an easy way this book will save you time in your development design and troubleshooting with SAP Gateway In addition it will also help you on the mobile application development side with SAPUI5 SAP Fiori You will learn Main Concepts Getting Familiarized with the SAP Gateway

Environment CRUDQ operations and Service Implementation Integrating SAP Gateway with SAPUI5 and Deploying SAPUI5 Apps SAP Gateway 2 0 Features Advanced Implementation of Services So get into the water and start splashing around it could only make you better Start on the journey to this technology today Are you ready to be proficient in a demanded integration area and reap the rewards in your job contract Scroll to the top of the page and press the BUY NOW button to get started right away

**SAP Gateway and OData** Carsten Bönnen,Volker Drees,André Fischer,Ludwig Heinz,Karsten Strothmann,2016 Connect your SAP system and the world of OData with this comprehensive guide to SAP Gateway Begin with the basics then walk through the steps in creating SAP Gateway and OData services Expand your skills further with how tos on developing SAPUI5 apps with the SAP Web IDE building SAP Fiori mobile and enterprise applications and performing administrative tasks for lifecycle management and security Explore the latest trends and technologies and map out your OData future a Deployment Installation ConfigurationGet started Discover the various deployment options for SAP Gateway and get step by step instructions for installation and configuration b SAP Gateway and OData ServicesCreate Walk through the specific tools for and steps in creating SAP Gateway and OData services Then learn how to extend your existing services including redefining services and customizing SAP Fiori apps c Application DevelopmentDevelop Learn how OData and SAP Gateway are used in SAPUI5 SAP Fiori mobile social media and enterprise applications Highlights SAP Gateway installation and deployment Service creation and deployment Mobile development Social media development Security Lifecycle management SAPUI5 SAP Web IDE SAP Fiori SAP HANA

*The SAP Fiori Handbook* Manpreet S. Brara,Subba Rao M.V. Parvathaneni,2025-10-21 The SAP Fiori Handbook is your one stop shop to turbo charge your UX skills to ensure your enterprise applications are more user friendly and accessible This handbook is broadly divided into four sections and provides you with an in depth exploration of the SAP Fiori system with chapters offering a theoretical context as well as detailed step by step explanations of the key concepts providing you with a systematic approach to deepen your understanding of the SAP Fiori environment The book will cover everything from introductory concepts and installation before moving through the key elements of the SAP Fiori system from the Fiori App Launchpad Content Manager and SAP Fiori UI We will also cover important topics like app support and troubleshooting and diving into SAP Fiori Reports too You Will Explore the entire SAP Fiori eco system endif Learn to configure and manage SAP Fiori Launchpad content endif See how to create custom apps and technical catalogs endif Explore how to implement Spaces and Pages Understand how to use App Support Functionality for troubleshooting Explore how to configure and manage Catalogs and Groups using SAP Fiori Launchpad Designer Understand how to convert existing Groups to Pages Get to grips with Fiori Apps recommendation report as well as SAP Fiori Upgrade Impact Analysis Report Who is this Book for SAP Fiori administrators consultants and Business Analysts as well as anyone responsible for configuring and maintaining the SAP Fiori launchpad experience for their company

**Sapui5** Rene Glavanovits,Martin Koch,Daniel Krancz,Maximilian Olzinger,2025-04-24 From web apps to user

interfaces get the skills you need to develop with SAPUI5 Master the fundamentals design guidelines IDEs TypeScript and more and then dive into development Create your first application and learn about SAPUI5 s libraries controls layouts and managed objects Integrate data into your applications using RESTful and OData services and then enhance them with SAP Fiori elements and custom controls With information on deployment debugging security and generative AI this guide has everything you need to become an SAPUI5 expert Highlights include 1 Infrastructure 2 TypeScript 3 Modules 4 Data binding 5 Navigation 6 RESTful services 7 OData services 8 Deployment 9 Security 10 SAP Fiori elements 11 SAP Build Code 12 Git

**SAP Cloud Platform** Ravi Sankar Dasari,Kunal Kotak,Srinivas Mudapalli,Rajesh Barman,Harikrishnadhar

Sonnenahalli,2018-07-26 The SAP Cloud Platform toolset is getting richer With this roadmap explore all the services provided by SAP Cloud Platform development analytics integration security and collaboration Build and extend cloud applications develop UXs integrate cloud and on premise systems secure apps and more See everything SAP Cloud Platform has to offer

*OData and SAP Gateway* Carsten Bönnen,2016

**OData and SAP NetWeaver Gateway** Carsten Bonnen,2014

**Digital Transformation of SAP Supply Chain Processes** Pranay Gupta,2024 Take a high level tour of SAP oDATA integrations with frontend technologies like Angular using the SAP Mobile Services Platform This book will give you a different perspective on executing SAP transactions on iOS using Angular instead of SAP provided Fiori based applications You ll start by learning about SAP supply chain processes such as Goods Receipt Transfer Posting Goods Issue and Inventory Search You ll then move on to understanding the thought process involved in integrating SAP s backend SAP ECC with Angular iOS app using SAP Mobile Services running on SAP BTP All this will serve as a guide tailored to SAP functional and technical consultants actively engaged in client facing roles You ll follow a roadmap for modernizing and streamlining supply chain operations by leveraging Angular iOS apps Digital Transformation of SAP Supply Chain Processes provides the essential tools for businesses looking to stay competitive in today s technology driven landscape You will Study the fundamental procedures to set up the Authorization Endpoint Token Endpoint and base URL within SAP Mobile Services Manage attachments in mobile applications and store them in an external content repository Gain proficiency in testing OData services using the POSTMAN API client with OAuth protocol Acquire knowledge about the JSON messages CORS protocol and X CSRF token exchange Link Zebra Printers through the Zebra Native Printing app on iOS App to print SAP forms on mobile printers

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