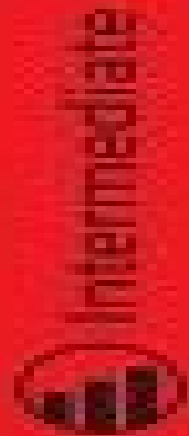


developer

// Step by step

# Microsoft ADO.NET Entity Framework



John Paul Mueller

# Microsoft Adonet 20 Step By Step

**Dino Esposito**



## **Microsoft Adonet 20 Step By Step:**

**Microsoft ADO.NET Entity Framework Step by Step** John Paul Mueller, 2013-08-15 Your hands on guide to Entity Framework fundamentals Expand your expertise and teach yourself the fundamentals of the Microsoft ADO NET Entity Framework 5 If you have previous programming experience but are new to the Entity Framework this tutorial delivers the step by step guidance and coding exercises you need to master core topics and techniques Discover how to Access data in a managed way using minimal code Apply three workflows supported by the Entity Framework Perform essential tasks with full automation in place Manipulate data with both LINQ and Entity SQL Create examples that rely on Table Valued Functions Determine the remedies for Entity specific exceptions Explore the use of optimistic and pessimistic concurrency Define mappings between your applications and data sources *Microsoft ADO.NET Step by Step* Rebecca Riordan, 2002 ADO NET the data access component of the Microsoft NET Framework works with any component on any platform that understands XML Get a solid handle on ADO NET and learn how to exploit the database functionality of Microsoft Visual Basic NET and Microsoft Visual C NET with this step by step primer You ll be working in ADO NET right away with easy to grasp examples drawn from the real world challenges developers face every day Learn about the ADO NET object model and how to use it to develop data bound Windows Forms and Web Forms See how ADO NET interacts with XML and how to access older versions of ADO from the NET environment Throughout you ll find insightful tips and expert explanations for rapid acceleration of development productivity faster applications and more powerful results Topics covered include Getting started with ADO NET Creating connections The Data command and DataReader Accessing data with the DataAdapter Working with DataSets Working with DataTables Controlling table views with DataViews Editing and updating data Data binding in Windows Forms Data binding in Web Forms Using the XML Designer to modify data structure Reading and writing XML with ADO NET Using ADO from the NET Framework CD features Examples of real world solutions developed with ADO NET including sample code in Visual Basic NET and Visual C NET For customers who purchase an ebook version of this title instructions for downloading the CD files can be found in the ebook *Programming Microsoft ASP.NET 2.0 Core Reference* Dino Esposito, 2006 Build your expertise as you move beyond the basics and delve into the core topics of programming with ASP NET 2 0 Useful to both experienced developers and those developing new skills this ultimate reference is packed with expert guidance hands on programming instruction and practical examples to help you advance your mastery of developing applications for the Web Discover how to Author rich visually consistent pages and manage layout with themes and Master pages Create personalized pages that persist user preferences Retrieve modify and manage data with Microsoft ADO NET Configure the HTTP pipeline to serve ASP NET 2 0 pages Control program flow by tracing and handling exceptions Design caching layers and learn state management techniques to optimize application performance Manage users with membership control registration and authentication capabilities Build real world data access layers using common design patterns Use

custom collections with data source controls Learn the internals of grid controls PLUS Get code samples on the Web

*Sams Teach Yourself ADO .NET in 24 Hours* Jason Lefebvre, Paul Bertucci, 2002 In 24 easy lessons learn the new object model to retrieve and work with data from multiple sources      **Middleware for Communications** Qusay

Mahmoud, 2005-06-10 A state of the art guide to middleware technologies and their pivotal role in communications networks Middleware is about integration and interoperability of applications and services running on heterogeneous computing and communications devices The services it provides including identification authentication authorization soft switching certification and security are used in a vast range of global appliances and systems from smart cards and wireless devices to mobile services and e Commerce Qusay H Mahmoud has created an invaluable reference tool that explores the origins and current uses of middleware highlighting the importance of such technologies as CORBA J2EE and JMS and has thus compiled the roadmap to future research in this area Middleware for Communications discusses the emerging fields of Peer to Peer P2P and grid middleware detailing middleware platforms such as JXTA and the Globus middleware toolkit shows how Middleware will play a significant role in mobile computing presents a Platform Supporting Mobile Applications PLASMA a middleware platform that consists of components for location event and profile handling of Location Based Services introduces middleware security focusing on the appropriate aspects of CORBA J2EE and NET and demonstrates how to realize complex security capabilities such as role based access control RBAC and mandatory access control MAC discusses how Quality of Service QoS component middleware can be combined with Model Driven Architecture MDA technologies to rapidly develop generate assemble and deploy flexible communications applications This incomparable overview of middleware for communications is suitable for graduate students and researchers in communications and computing departments It is also an authoritative guide for engineers and developers working on distributed systems mobile computing and networked appliances      *Sams Teach Yourself XML in 21 Days* Steven Holzner, 2004 Engineered to be the answer for

learning XML expert author Holzner offers hundreds of real world examples demonstrating the uses of XML and the newest tools developers need to make the most of it      *Pure ASP.NET* Robert Lair, Jason Lefebvre, 2002 Pure ASP NET is a premium reference for Active Server Pages development in the new Microsoft NET Framework Like all books in the Pure Series Pure Active Server Pages NET is comprised of 3 parts Part I Conceptual Reference is a fast paced primer that covers ASP NET fundamentals and concepts Part II Techniques Reference is full of well commented commercial quality code that illustrates practical applications of ASP NET concepts Examples are presented in both Visual Basic and C to appeal to a wide variety of programmers Part III Syntax and Object Reference contains detailed coverage of NET Namespaces such as System Web and System Data that are invaluable to ASP NET developers      **Programming Entity Framework** Julia Lerman, 2010-08-09 Get a thorough introduction to ADO NET Entity Framework 4 Microsoft's core framework for modeling and interacting with data in NET applications The second edition of this acclaimed guide provides a hands on tour of the framework latest version in

Visual Studio 2010 and NET Framework 4 Not only will you learn how to use EF4 in a variety of applications you ll also gain a deep understanding of its architecture and APIs Written by Julia Lerman the leading independent authority on the framework Programming Entity Framework covers it all from the Entity Data Model and Object Services to WCF Services MVC Apps and unit testing This book highlights important changes for experienced developers familiar with the earlier version Understand the core concepts you need to make the best use of the EF4 in your applications Learn to query your data using either LINQ to Entities or Entity SQL Create Windows Forms WPF ASP NET Web Forms and ASP NET MVC applications Build and consume WCF Services WCF Data Services and WCF RIA Services Use Object Services to work directly with your entity objects Create persistent ignorant entities repositories and write unit tests Delve into model customization relationship management change tracking data concurrency and more Get scores of reusable examples written in C with notes on Visual Basic syntax that you can implement right away *Programming Microsoft Web Forms* Douglas J. Reilly, 2006 Get the focused straightforward information you need to master the most common challenges in developing real world Web Forms applications Whether you re a new or experienced developer you ll learn the essential techniques for exploiting new forms and controls in Microsoft ASP NET 2 0 enabling you to write Web applications more quickly and with less code Discover how to Work with standard ASP NET controls for common tasks Create your own user controls and custom server controls Lay out forms with HTML and Cascading Style Sheets Create common page elements just once with Master Pages Style your Web Forms with themes and skins Add Web Parts and allow users to personalize pages Access and edit data with Microsoft ADO NET objects Bind data to your form controls without adding any code Create security enhanced Web applications Integrate your Web forms with Windows Forms applications PLUS Get code samples on the Web

**Microsoft ADO.NET Entity Framework Step by Step** JOHN PAUL. MULLER, 2016 Expand your expertise and teach yourself the fundamentals of the Microsoft ADO NET Entity Framework 5 If you have previous programming experience but are new to the Entity Framework this tutorial delivers the step by step guidance and coding exercises you need to master core topics and techniques Discover how to Access data in a managed way using minimal code Apply three workflows supported by the Entity Framework Perform essential tasks with full automation in place Manipulate data with both LINQ and Entity SQL Create examples that rely on Table Valued Functions Determine the remedies for Entity specific exceptions Explore the use of optimistic and pessimistic concurrency and Define mappings between your applications and data sources Page 4 of cover Professional ADO.NET 3.5 with LINQ and the Entity Framework Roger Jennings, 2009-02-23 Language Integrated Query LINQ as well as the C 3 0 and VB 9 0 language extensions to support it is the most import single new feature of Visual Studio 2008 and the NET Framework 3 x LINQ is Microsoft s first attempt to define a universal query language for a diverse set of in memory collections of generic objects entities persisted in relational database tables and element and attributes of XML documents or fragments as well as a wide variety of other data types such as RSS and Atom

syndication feeds Microsoft invested millions of dollars in Anders Hejlsberg and his C design and development groups to add new features to C 3 0 such as lambda expressions anonymous types and extension methods specifically to support LINQ Standard Query Operators SQOs and query expressions as a part of the language itself Corresponding additions to VB 9 0 followed the C team s lead but VB s implementation of LINQ to XML offers a remarkable new addition to the language XML literals VB s LINQ to XML implementation includes XML literals which treat well formed XML documents or fragments as part of the VB language rather than requiring translation of element and attribute names and values from strings to XML DOM nodes and values This book concentrates on hands on development of practical Windows and Web applications that demonstrate C and VB programming techniques to bring you up to speed on LINQ technologies The first half of the book covers LINQ Standard Query Operators SQOs and the concrete implementations of LINQ for querying collections that implement generic IEnumerable IQueryable or both interfaces The second half is devoted to the ADO NET Entity Framework Entity Data Model Entity SQL eSQL and LINQ to Entities Most code examples emulate real world data sources such as the Northwind sample database running on SQL Server 2005 or 2008 Express Edition and collections derived from its tables Code examples are C and VB Windows form or Web site application projects not except in the first chapter simple command line projects You can t gain a feel for the behavior or performance of LINQ queries with Hello World projects that process arrays of a few integers or a few first and last names This book is intended for experienced NET developers using C or VB who want to gain the maximum advantage from the query processing capabilities of LINQ implementations in Visual Studio 2008 LINQ to Objects LINQ to SQL LINQ to DataSets and LINQ to XML as well as the object relational mapping O RM features of VS 2008 SP1 s Entity Framework Entity Data Model and LINQ to Entities and the increasing number of open source LINQ implementations by third party developers Basic familiarity with generics and other language features introduced by NET 2 0 the Visual Studio integrated development environment IDE and relational database management systems RDBMSs especially Microsoft SQL Server 200x is assumed Experience with SQL Server s Transact SQL T SQL query language and stored procedures will be helpful but is not required Proficiency with VS 2005 NET 2 0 C 2 0 or VB 8 0 will aid your initial understanding of the book s C 3 0 or VB 9 0 code samples but isn t a prerequisite Microsoft s NET code samples are primarily written in C All code samples in this book s chapters and sample projects have C and VB versions unless they re written in T SQL or JavaScript Professional ADO NET 3 5 LINQ and the Entity Framework concentrates on programming the System Linq and System Linq Expressions namespaces for LINQ to Objects System Data Linq for LINQ to SQL System Data Linq for LINQ to DataSet System Xml Linq for LINQ to XML and System Data Entity and System Web Entity for EF s Entity SQL Taking a New Approach to Data Access in ADO NET 3 5 uses simple C and VB code examples to demonstrate LINQ to Objects queries against in memory objects and databinding with LINQ populated generic List collections object relational mapping O RM with LINQ to SQL joining DataTables with LINQ to DataSets creating EntitySets with LINQ to Entities

querying and manipulating XML InfoSets with LINQ to XML and performing queries against strongly typed XML documents with LINQ to XSD Understanding LINQ Architecture and Implementation begins with the namespaces and C and VB language extensions to support LINQ LINQ Standard Query Operators SQOs expression trees and compiled queries and a preview of domain specific implementations C and VB sample projects demonstrate object array and collection initializers extension methods anonymous types predicates lambda expressions and simple query expressions Executing LINQ Query Expressions with LINQ to Objects classifies the 50 SQOs into operator groups Restriction Projection Partitioning Join Concatenation Ordering Grouping Set Conversion and Equality and then lists their keywords in C and VB VS 2008 SP1 includes C and VB versions of the LINQ Project Sample Query Explorer but the two Explorers don't use real world collections as data sources This describes a LINQ in memory object generator LIMOG utility program that writes C 3.0 or VB 9.0 class declarations for representative business objects that are more complex than those used by the LINQ Project Sample Query Explorers Sample C and VB queries with these business objects as data sources are more expressive than those using arrays of a few integers or last names Working with Advanced Query Operators and Expressions introduces LINQ queries against object graphs with entities that have related associated entities This begins with examples of aggregate operators explains use of the Let temporary local variable operator shows you how to use Group By with aggregate queries conduct the equivalent of left outer joins and take advantage of the Contains SQO to emulate SQL's IN function You learn how to compile queries for improved performance and create mock object classes for testing without the overhead of queries against relational persistence stores Using LINQ to SQL and the LinqDataSource introduces LINQ to SQL as Microsoft's first ORM tool to reach released products status and shows you how to autogenerate class files for entity types with the graphical OR Designer or command line SqlMetal.exe This also explains how to edit dbml mapping files in the Designer or XML Editor instantiate DataContext objects and use LINQ to SQL as a Data Access Layer DAL with T-SQL queries or stored procedures Closes with a tutorial for using the ASP.NET LinqDataSource control with Web sites or applications Querying DataTables with LINQ to DataSets begins with a comparison of DataSet and DataContext objects and features followed by a description of the DataSetExtensions Next comes querying untyped and typed DataSets creating lookup lists and generating LinqDataViews for databinding with the AsDataView method This ends with a tutorial that shows you how to copy LINQ query results to DataTables Manipulating Documents with LINQ to XML describes one of LINQ's most powerful capabilities managing XML InfoSets This demonstrates that LINQ to XML has query and navigation capabilities that equal or surpasses XQuery 1.0 and XPath 2.0 It also shows LINQ to XML document transformation can replace XQuery and XSLT 1.0 in the majority of common use cases You learn how to use VB 9.0's XML literals to construct XML documents use GroupJoin to produce hierarchical documents and work with XML namespaces in C and VB Exploring Third Party and Emerging LINQ Implementations describes Microsoft's Parallel LINQ also called PLINQ for taking advantage of multiple CPU cores in LINQ

to Objects queries LINQ to REST for translating LINQ queries into Representational State Transfer URLs that define requests to a Web service with the HTML GET POST PUT and DELETE methods and Bart De Smet's LINQ to Active Directory and LINQ to SharePoint third party implementations Raising the Level of Data Abstraction with the Entity Data Model starts with a guided tour of the development of EDM and EF as an ORM tool and their apparent to ADO.NET DataSets provides a brief description of the entity relationship ER data model and diagrams and then delivers a detailed analysis of EF architecture Next comes an introduction to the Entity SQL eSQL language eSQL queries client views and Object Services including theObjectContext MetadataWorkspace and ObjectStateManager Later chapters describe eSQL and these objects in greater detail Two C# and VB sample projects expand on the eSQL query and Object Services sample code Defining Conceptual Mapping and Storage Schema Layers provides detailed insight into the structure of the edmx file that generates the ssdl storage schema data language msl mapping schema language and csdl files at runtime You learn how to edit the edmx file manually to accommodate modifications that the graphic EDM Designer can't handle You learn how to implement the Table per Hierarchy TPH inheritance model and traverse the MetadataWorkspace to obtain property values Four C# and VB sample projects demonstrate mapping substituting stored procedures for queries and TPH inheritance Introducing Entity SQL examines EF's new eSQL dialect that adds keywords to address the differences between querying entities and relational tables You learn to use Zlatko Michaelov's eBlast utility to write and analyze eSQL queries then dig into differences between eSQL and T-SQL SELECT queries eSQL v1 doesn't support INSERT UPDATE DELETE and other SQL Data Manipulation Language constructs You execute eSQL queries against the EntityClient measure the performance hit of eSQL compared to T-SQL execute parameterize eSQL queries and use SQL Server Compact 3.5 as a data store C# and VB Sample projects demonstrate the programming techniques Taking Advantage of Object Services and LINQ to Entities concentrates manipulating the Object Services API's ObjectContext It continues with demonstrating use of partial classes for the ModelNameEntities and EntityName objects executing eSQL ObjectQuery's and deferred or eager loading of associated entities including ordering and filtering the associated entities Also covers instructions for composing QueryBuilder methods for ObjectQuery's LINQ to Entities queries and parameterizing ObjectQuery's Updating Entities and Complex Types shows you how to perform create update and delete CUD operations on EntitySets and manage optimistic concurrency conflicts It starts with a detailed description of the ObjectContext ObjectStateManager and its child objects which perform object identification and change tracking operations with EntityKeys This also covers validation of create and update operations optimizing the DataContext lifetime performing updates with stored procedures and working with complex types Binding Data Controls to the ObjectContext describes creating design time data sources from ObjectContext EntitySet instances drag and drop addition of BindingNavigator BindingSource bound TextBox and DataGridView controls to Windows forms You also learn how to update EntityReference and EntitySet values with ComboBox columns in DataGridView controls You can't update

EntitySet values directly you must delete and add a new member having the required value This concludes with a demonstration of the use of the ASP NET EntityDataSource control bound to GridView and DropDownList controls Using the Entity Framework As a Data Source concentrates on using EF as a data source for the ADO NET Data Services Framework the former codename Project Astoria remains in common use which is the preferred method for deploying EF v1 as a Web service provider EF v2 is expected to be able to support n tier data access with Windows Communication Foundation WCF directly A Windows form example uses Astoria s NET 3 5 Client Library to display and update entity instances with the Atom Publication AtomPub or APP wire format The Web form project uses the AJAX Client Library and JavaScript Object Notation JSON as the wire format     [ADO.NET Examples and Best Practices for C# Programmers](#) Peter D. Blackburn,William Vaughn,2002-04-01 Written specifically for COM based ADO developers retooling for ADO NET using the C language this book brings fresh insights and tips on the ADO NET technology Veteran authors William Vaughn and Peter Blackburn have packed this formative guide with practical advice on how to write code that is both faster running and easier to understand The onset of the new NET technology is forcing developers to completely rethink their data access strategies This book helps you to do this through working examples and numerous discussions of what works and what doesnt Derived from years of experience working with data access developers ADO NET Examples and Best Practices for C Programmers includes a set of techniques proven to drastically reduce overhead problems and confusionfor the devleoper the system and the entire team While some are quite simple to implement others require considerable forethought to enable This is a developers bookfull of hints tips and notes passed on from those whove spent significant time in the NET and C trenches     [Applied ADO.NET](#) David Talbot,Mahesh Chand,2013-11-09 Applied ADO NET Building Data Driven Solutions provides extensive coverage of ADO NET technology including ADO NET internals namespaces classes and interfaces Whereas most books cover only the SQL and OLE DB data providers authors Mahesh Chand and David Talbot detail the SQL OLE DB and ODBC data providers as well as additions to ADO NET the Oracle MySQL and XML NET data providers Chand and Talbot also cover the internals of data binding and provide detailed coverage of both Windows Forms and Web Forms data binding and data bound controls Because XML plays a major role in NET development the authors take a comprehensive look at XML namespaces and classes and how to integrate both with ADO NET The book begins with the basics of ASP NET and data bound controls It then delves into the internals of data binding and shows how to use DataGrid DataList and other data bound controls in real world applications Chand and Talbot also discuss the ASP NET guest book database XML Web services and even an online bookstore site development and design process The book also covers How to create a custom data provider Event handling Server side programming Data relations and constraints Active Directory Messaging Exception and error handling The object relational model Advanced developers will learn from the coverage of ADO NET architecture related design issues and how ADO NET data providers are designed     [ADO.NET 3.5 Cookbook](#) Bill Hamilton,2008-03-28 Rather than theory this text

provides easy to find coding solutions to real problems offering clear explanations of how and why the code works potential pitfalls and sources of additional information      *ADO.NET in a Nutshell* Bill Hamilton,Matthew MacDonald,2003-04-25

Written by experts on the Microsoft NET programming platform ADO NET in a Nutshell delivers everything NET programmers will need to get a jump start on ADO NET technology or to sharpen their skills even further In the tradition of O Reilly s In a Nutshell Series ADO NET in a Nutshell is the most complete and concise source of ADO NET information available ADO NET is the suite of data access technologies in the NET Framework that developers use to build applications services accessing relational data and XML Connecting to databases is a fundamental part of most applications whether they are web Windows distributed client server XML Web Services or something entirely different But ADO NET is substantially different from Microsoft s previous data access technologies including the previous version of ADO so even experienced developers need to understand the basics of the new disconnected model before they start programming with it Current with the NET Framework 1.1 ADO NET in a Nutshell offers one place to look when you need help with anything related to this essential technology including a reference to the ADO NET namespaces and object model In addition to being a valuable reference this book provides a concise foundation for programming with ADO NET and covers a variety of issues that programmers face when developing web applications or Web Services that rely on database access Using C# this book presents real world practical examples that will help you put ADO NET to work immediately Topics covered in the book include An Introduction to ADO NET Connections Commands and DataReaders Disconnected Data Advanced DataSets Transactions DataViews and Data Binding XML and the DataSet Included with the book is a Visual Studio NET add in that integrates the entire reference directly into your help files When combining ADO NET in a Nutshell with other books from O Reilly s NET In a Nutshell series you ll have a comprehensive detailed and independent reference collection that will help you become more productive      *A Programmer's Guide to ADO.NET in C#* Mahesh Chand,Mike Gold,2002-04-17 A Programmer s Guide to ADO NET in C# begins by taking readers through a fast paced overview of C# and then delves into ADO NET Why should C# programmers use it instead of the existing technologies What new functionality does it offer The chapters that follow go through the details on each of the major Data Providers of the NET platform OleDb SQL Server and ODBC that enable you to read and write data to the targeted database These chapters also serve as a good reference for looking up detailed methods and properties for these data provider classes Authors Chand and Gold also show C# programmers how to work with XML classes and how to integrate XML into the ADO NET architecture The book provides programmers with handy ideas about taking advantage of the VS NET IDE and how you can tie your data to the myriad of powerful controls including the multi faceted Data Grid Finally it goes through creating a guest book application for the Web so you can see how all the pieces fit together      **Pro ADO.NET Data Services** John Shaw,Gary Evans,2009-01-29 Pro ADO NET Data Services Working with RESTful Data is aimed at developers interested in taking advantage of the REST style data services

that ADO NET Data Services formerly code named Astoria provides The book shows how to incorporate ADO NET Data Services into a wide range of common environments including BizTalk Ajax and Silverlight client applications The material is intended for professional developers who are comfortable with the NET 3 5 Framework but are coming to ADO NET Data Services for the first time and want to understand how to integrate it into their own applications and enterprise solutions The book is packed full with extensive real world solutions and exercises ensuring you walk away with a deep understanding of how to use ADO NET Data Services to your best advantage **ADO.NET** Heather Wright,2013-11-09 Designed to get programmers up to professional levels as fast as possible ADO NET From Novice to Pro is geared toward developers who have little or no NET or ADO NET experience as well as programmers who are not yet comfortable with database programming Best selling author Peter Wright painlessly moves readers from simple database access to the sophisticated manipulation of XML documents The book begins by showing you the basic architecture of ADO NET and then provides you with the tools you ll need to work with data providers and the Connection Command and DataSet objects Wright then drills down into the topics that are essential for you as a professional developer to understand including transactions concurrency typed DataSets and the use of XML with ADO NET Through numerous hands on examples and working code that is adaptable to individual projects you ll learn how to create fast and powerful ADO NET enterprise applications By the end of this book you ll be able to work at a professional level utilizing Microsoft s most powerful data access technology **ADO.NET and ADO Examples and Best Practices for VB Programmers** William Vaughn,2008-01-01 ADO NET and ADO Examples and Best Practices for VB Programmers Second Edition brings the popular first edition up to date with fresh insights and tips on COM based ADO and adds a voluminous section on the new ADO NET technology Written specifically for COM based ADO developers retooling for ADO NET this is a developer s book packed with practical advice on how to make code run faster yet be easier to write and understand Veteran author William Vaughn guides you through the data access maze with working examples and numerous discussions of what works and what doesn t Derived from years of experience working with data access developers Vaughn s Best Practices are a set of techniques proven to drastically reduce overhead problems and confusion for the developer the system and the entire team While some are quite simple to implement others require considerable knowledge and forethought to enable 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

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