

Microsoft SQL Server 2008 R2: What's New

Table of Contents

INTRODUCTION.....	INTRO-1
Prerequisites.....	INTRO-2
Installing the Practice Files	INTRO-3
Software Requirements	INTRO-3
Sample Databases.....	INTRO-4
Installation.....	INTRO-6
About the Author.....	INTRO-7
Acknowledgements.....	INTRO-7
INTRODUCTION TO SQL SERVER 2008 R2	1-1
What Is the R2 Release?.....	1-2
Focus of R2.....	1-3
What Hasn't Changed (Much) in R2?	1-3
New Top-End Premium Editions.....	1-4
Summary of SQL Server 2008 R2 Editions	1-5
Enhanced Security.....	1-7
Credential Forwarding Attacks	1-7
Extended Protection in Windows and SQL Server	1-9
Extended Protection and SQL Server 2008 R2	1-10
Installation Enhancements.....	1-15
New Installation Options	1-15
Running SQL Server 2008 Side-by-Side with R2	1-17
Using Master Data Services	1-20
Master Data Management	1-20
Master Data Services.....	1-21
Using Master Data	1-23
DATA-TIER APPLICATIONS AND MULTI-SERVER MANAGEMENT	2-1
Multi-Server Management and Applications	2-2
SQL Server Utility	2-2
Data-Tier Applications.....	2-6
Data-Tier Applications (DAC)	2-8
Limitations and System Requirements of DACs	2-9
Creating a Data-Tier Application.....	2-11
Working with DACs.....	2-32
Deploy a DAC to an Instance of SQL Server.....	2-32

Table of Contents

Delete a DAC Registered in SQL Server	2-40
Registering a Data-Tier Application	2-44
Upgrading and Updating a DAC	2-49
LAB 2: DATA-TIER APPLICATIONS AND MULTI-SERVER MANAGEMENT.....	2-69
Lab 2 Overview.....	2-70
Extract a DAC Package from an Existing Database.....	2-71
Import and Build a DAC Package in Visual Studio	2-76
Deploy a DAC Package to SQL Server	2-82
BUSINESS INTELLIGENCE FOR THE POWER USER	3-1
PowerPivot for Excel and SharePoint.....	3-2
Client and Server Tools	3-3
PowerPivot Components	3-4
PowerPivot Reports	3-6
Working with the PowerPivot Excel Add-In.....	3-7
Create a PowerPivot Workbook and Load Data	3-7
Import Additional Data to the PowerPivot Window	3-15
Create a Relationship Manually	3-22
Fine-Tune the PowerPivot Data Model	3-24
Use a Text Data Source.....	3-29
Create a PowerPivot Report	3-41
LAB 3: BUSINESS INTELLIGENCE FOR THE POWER USER	3-53
Lab 3 Overview.....	3-54
Create and Load a PowerPivot Workbook.....	3-55
Refine the PowerPivot Data Model.....	3-62
Create a PowerPivot Report	3-63
QUERYING REAL TIME DATA STREAMS	4-1
Introduction to StreamInsight.....	4-2
Complex Event Processing (CEP)	4-2
Microsoft StreamInsight	4-4
StreamInsight Architecture.....	4-6
Installing StreamInsight.....	4-9
Developing Applications with StreamInsight.....	4-10
The Sample Application	4-11
Define Event Types and Payload.....	4-15
Reading Input.....	4-16
Handling Output.....	4-21

Querying a Data Stream	4-24
Projection Query	4-27
Filtering Query	4-30
Windowing and Aggregation.....	4-31
Other Query Options.....	4-34
LAB 4: QUERYING REAL TIME DATA STREAMS.....	4-39
Lab 4 Overview.....	4-40
Set Up, Run, and Test the Sample Application	4-41
Explore the StreamInsight Implementation.....	4-44
REPORTING SERVICES IN R2.....	5-1
Reporting Services Enhancements	5-2
New Data Sources	5-3
Cache Refresh Plans	5-3
Expression Language Enhancements	5-5
Lookup Functions to Join Datasets.....	5-5
Aggregates of Aggregates	5-9
Conditional Rendering with RenderFormat.....	5-11
Writable Report Variables	5-17
Layout Enhancements	5-21
Text Orientation	5-21
Pagination and Page Numbering	5-23
Synchronized Data Alignment.....	5-31
Report as Atom Data Feed.....	5-35
LAB 5: REPORTING SERVICES IN R2	5-50
Lab 5 Overview.....	5-51
Add Pagination Features to a Report	5-52
Create an Atom Feed from a Report	5-57
SHARED DATASETS AND DATA VISUALIZATION	6-1
Introduction	6-2
Shared Datasets	6-3
Creating Shared Datasets.....	6-4
Using Shared Datasets	6-12
Managing Shared Datasets	6-13
Which Kind of Dataset to Use?	6-19
Make Report Data Come Alive	6-20
Data Bars	6-21

Table of Contents

Sparklines	6-25
Indicators	6-32
Map-Based Data.....	6-38
LAB 6: SHARED DATASETS AND DATA VISUALIZATION.....	6-58
Lab 6 Overview.....	6-59
Create and Use a Shared Dataset.....	6-60
Create a Map Report	6-67
REPORT MANAGER AND VIEWER IN R2	7-1
Managing and Working with Reporting Services	7-2
Reporting Services Configuration Manager	7-3
Reporting Services in Management Studio.....	7-10
Deploying a Report Project.....	7-18
Report Manager.....	7-21
Starting Report Manager.....	7-21
Report Manager Home Page	7-23
Folder and File Options.....	7-30
Securing Files and Folders	7-33
Report Viewer	7-38
Browser Support	7-38
Viewing a Report.....	7-39
Report Toolbar	7-40
LAB 7: REPORT MANAGER AND VIEWER IN R2.....	7-47
Lab 7 Overview.....	7-48
Deploy a Report Project to a Report Server	7-49
Use Report Manager to Configure a Folder and Report.....	7-52
View a Report with Report Viewer	7-57
REPORT BUILDER 3.0	8-1
Introducing Report Builder 3.0	8-2
Report Builder vs. Report Designer	8-2
Tour of the New Report Builder	8-3
Shared Dataset Design View	8-9
Installing and Starting Report Builder 3.0	8-13
Creating and Using Report Models.....	8-16
Creating Reports.....	8-33
Preview Performance.....	8-50
Using Report Parts.....	8-51

Using Reports with SharePoint.....	8-62
Integrated vs. Native Mode	8-62
Viewing Reports in Native Mode.....	8-65
LAB 8: REPORT BUILDER 3.0	8-71
Lab 8 Overview.....	8-72
Create a Report Model	8-73
Deploy a Report Model to a Report Server.....	8-86
Create a Report Using Report Builder	8-88
INDEX.....	INDEX-1