

SQL Server Compact Edition

Getting Started

About

- Robert C. Cain
- Southern Nuclear since 2005
- 10 years as a consultant in the B'ham Market
- Wide range of .Net applications, ASP & Win
- SQL Server 2005 Data Warehouse
- <http://arcanecode.com>

Thank You

“The successful people do what the failures won’t.”



--Anthony Robbins

SQL Server Compact Edition

- Lightweight and Compact Database
- Embedded
- Runs in-process
- Supported on multiple devices
- Securable
- It is *not* SQL Server Express
- It is *not* JET!

History of SSCE

- SSCE is not new
- 2000 – SQL Server CE 1.0
- 2003 – SQL Server CE 2.0
- 2005 – SQL Server Mobile 3.0
- 2006 – Beta known as SQL Server Everywhere Edition
- 2007 – SQL Server Compact Edition

Compact Edition vs. Express Edition

	Express Edition	Compact Edition
Installed Size	197 MB	1.8 MB
Able to install with App	No	Yes
Admin rights needed to install	Yes	No*
Database File Format	Multiple Files	Single Files
Database Max Size	4 GB	4 GB
Transactions	Yes	Yes
Stored Procedures, Triggers	Yes	No
Views	Yes	No
Multi-User	Yes	No

Valid Data Types for SSCE

Numbers	Characters / Strings	Other
Bigint*	nvarchar(n)	datetime
Integer*	ntext	binary(n)
smallint	nchar	varbinary(n)
tinyint		image
bit		Uniqueidentifier*
numeric (p,s)		identity[(s,i)]
money		rowguidcol
float		
real		

* Can be used as Identity Columns

<http://shrinkster.com/lij>

Identities

- Identity can serve as a Primary Key
- Int, BigInt can have Identity value
- Problem: Inserts generally need to have 2 trips to database to discover key
 - 1) Insert the new record
 - 2) Read the record to get the new key
- Uniqueidentifier uses a GUID
- Does not auto generate GUID for you
- Use `System.Guid.NewGuid()` to create

Compact Edition is best suited for...

- Mobile Applications
- Single user applications run on the desktop (Windows Forms or Command Line)

Compact Edition is not suited for...

- Multiuser applications
- Applications that need to run on the network

What you need...

- SQL Server Compact Edition 3.1

<http://shrinkster.com/l9f>

- Visual Studio 2005 SP1

<http://shrinkster.com/lel>

- SQL Server Compact Edition Books on Line

<http://shrinkster.com/lem>

- SQL Server Compact Edition Tools for Visual Studio 2005 Service Pack 1

<http://shrinkster.com/oam>

Demos...

- 3 ways to create a database
- Creating a table
- Adding / Retrieving data

Thanks Again!

- Questions?
- All material available at <http://arcanecode.com>
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