



**SQL Server 2005
and ArcSDE**

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SQL Server 2005

- Microsoft SQL Server 2005 Web site
 - <http://www.microsoft.com/sql/2005/default.asp>
- Get the latest CTP
 - <http://www.microsoft.com/sql/2005/productinfo/ctp.msp>

New Client Tools

- SQL Server Management Studio
 - Single management console
 - To replace Enterprise Manager and Query Analyzer
 - All administration functions
 - Development environment for T-SQL, MDX, XMLA
 - No connectivity required in Query window
 - Build solutions and projects
 - Projects: scripts, queries, data connections, and files
 - Solutions: one or more projects + metadata

Security

- Enforce password policies for SQL Server logins

Permissions for THISBE\DEV:

Permission	Allow	Deny
Administer bulk operations	<input type="checkbox"/>	<input type="checkbox"/>
Alter any connection	<input type="checkbox"/>	<input type="checkbox"/>
Alter any credential	<input type="checkbox"/>	<input type="checkbox"/>
Alter any database	<input type="checkbox"/>	<input type="checkbox"/>
Alter any endpoint	<input type="checkbox"/>	<input type="checkbox"/>
Alter any event notification	<input type="checkbox"/>	<input type="checkbox"/>
Alter any linked server	<input type="checkbox"/>	<input type="checkbox"/>
Alter any login	<input type="checkbox"/>	<input type="checkbox"/>
Alter resources	<input type="checkbox"/>	<input type="checkbox"/>
Alter server state	<input type="checkbox"/>	<input type="checkbox"/>
Alter settings	<input type="checkbox"/>	<input type="checkbox"/>

- Finer granularity for server and database-level permissions
 - e.g., permission to execute traces
- More broad database-level permissions
 - e.g., execute all stored procedures

Schemas

- Collection of database entities that form a namespace
- In 2000 the owner and schema were connected
 - Every user is the owner of a schema that bears the same name
- In 2005 the schema exists independently of the owner
 - Database objects 'live' on schemas
 - Permissions can be applied to schemas
 - Users can be added and removed from databases without altering object ownership

Online Operations

- Online index management
 - Create, rebuild, or drop indexes online
 - Does not interfere with access to tables or other existing indexes
- Online restore
 - Database can be online during secondary file or filegroup restore operations (Enterprise Edition only)
- Faster recovery
 - Access during undo phase of recovery
 - *Fast recovery*: access after redo phase (Enterprise only)

How We Will Support 2005

- SQL Server 2005 releases in November
- 9.2 Personal and Workgroup ArcSDE will use SQL Server 2005 Express edition
- 9.2 and 9.1 SP1 will support 2005
 - With caveats
 - 9.1 SP1: manually configure additional SDE permissions
 - For data owners, user name and schemas must match
- Post 9.2
 - Increased support of functionality
 - MARS
 - Snapshot Isolation
 - Schemas
 - Large Value Data Types (MAX specifier)