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SQL Server 2005 Features Comparison

Published: November 7, 2005 | Updated: May 22, 2006

At Microsoft, we believe that software should provide you with choices that let you find the solution best tailored to your business' needs. To that end, we have redesigned the SQL Server 2005 product family to better meet the needs of each customer segment with four new editions: Express, Workgroup, Standard, and Enterprise. As a low-cost mainstream database, SQL Server 2005 will deliver unprecedented value and functionality compared with competitive solutions. The

four new editions will offer a range of features, from high availability and robust scalability to advanced business intelligence tools, designed to empower the people across your organization through a more secure, reliable, and productive data management platform. Additionally, with the reduced application downtime, robust scalability and performance, and tight security controls, SQL Server 2005 represent dramatic step forward in supporting the most demanding enterprise systems in the world. Because SQL Server is part of Windows Server System, you will also receive added benefits of reduced total cost of ownership and faster development time thro the increased manageability and integration that result from the common engineeri strategy implemented across Windows Server System products. The table below presents details about each of the different editions.

SQL Server 2005 Edit

- [Enterprise Edition](#)
- [Standard Edition](#)
- [Workgroup Edition](#)
- [Express Edition](#)
- [Developer Edition](#)
- [Compact Edition](#)

Notes: In the following table, the "Comments" column provides comments on the specified feature. Numbers next to check marks indicate footnotes that appear at t bottom of the page. SQL Server 2005 Developer Edition and Evaluation Edition are listed in the tables. These editions have the same feature set as the Enterprise Edit the only difference between these editions is the licensing policies.

Scalability and Performance

Feature	Express	Workgroup	Standard	Enterprise	Comments
Number of CPUs	1	2	4	No Limit	Includes support for multicore processors.
RAM	1 gigabyte (GB)	3 GB	Operating system maximum	Operating system maximum	Memory limite to maximum supported by operating system.
64-bit Support	Windows on	WOW	✓	✓	

	Windows (WOW)				
Database Size	4 GB	No Limit	No Limit	No Limit	
Partitioning				✓	Support for large-scale databases
Parallel Index Operations				✓	Parallel processing of indexing operations
Indexed Views				✓	Indexed view creation is supported in a editions. Indexed view matching by the query processor is supported only in Enterprise Edition.

High Availability

Feature	Express	Workgroup	Standard	Enterprise	Comments
Database Mirroring			✓ ₁	✓	Advanced high availability solution that includes fast failover and automatic client redirection
Failover Clustering			✓ ₂	✓	
Backup Log-shipping		✓	✓	✓	Data backup and recovery solution
Online System Changes	✓	✓	✓	✓	Includes Hot Add Memory, dedicate administrative connection, and other online operations
Online Indexing				✓	

Online Restore				✓	
Fast Recovery				✓	Database available when undo operations begin

¹ Single REDO thread and the safety setting is always on.

² Supports only two nodes.

Manageability

Feature	Express	Workgroup	Standard	Enterprise	Comments
Auto Tuning	✓	✓	✓	✓	Automatical tunes datab for optimal performanc
Profiler	¹	²	✓	✓	
SQL Server Management Studio Express	See Comments	✓	✓	✓	Easy-to-use graphical managemer tool availab as a separa download o included wit the SQL Ser Express w/Advanced Services download
Management Studio		✓	✓	✓	Full managemer platform for SQL Server includes Business Intelligence (BI) Developer Studio.
Database Tuning Advisor			✓	✓	Automatical suggests enhanceme to your database architecture improve performanc
Serviceability	✓	✓	✓	✓	Dynamic

Enhancements					managemer views and reporting enhance
Full-text Search	See comments	✓	✓	✓	Available fo SQL Server Express in t SQL Server Express w/ Advanced Services download
SQL Agent Job Scheduling Service		✓	✓	✓	

¹ This edition can be profiled from a Standard or Enterprise Edition of SQL Server 2005.

² This edition can be profiled from a Standard or Enterprise Edition of SQL Server 2005.

Security

Feature	Express	Workgroup	Standard	Enterprise	Comments
Advanced Auditing, Authentication, and Authorization	✓	✓	✓	✓	
Data Encryption and Key Management	✓	✓	✓	✓	Built-in data encryption fc advanced data security
Integration with Microsoft Baseline Security Analyzer	✓	✓	✓	✓	Scans your system to check for common security vulnerabilitie
Integration with Microsoft Update	✓	✓	✓	✓	

Programmability

Feature	Express	Workgroup	Standard	Enterprise	Comments
Stored Procedures,	✓	✓	✓	✓	

Triggers, and Views					
T-SQL Enhancements	✓	✓	✓	✓	Includes exception handling, recursive queries, and support for new data types.
Common Language Runtime and .NET Integration	✓	✓	✓	✓	
User-defined Types	✓	✓	✓	✓	Extend the server with your own custom data types.
Native XML	✓	✓	✓	✓	Includes XM indexing and full-text XM search.
XQuery	✓	✓	✓	✓	
Notification Services			✓	✓	Allows the building of advanced subscription and publication applications
Service Broker	See comments	✓	✓	✓	SQL Server Express can exchange messages with other editions. Messages between instances of SQL Server Express must be routed through another edition.

Integration and Interoperability

Feature	Express	Workgroup	Standard	Enterprise	Comments
Import/Export		✓	✓	✓	
Integration Services with Basic Transforms			✓	✓	Provides graphical extract, transform, and load (ETL) capabilities.
Integration Services Advanced Transforms				✓	Includes data mining, text mining, and data cleansing.
Merge Replication	✓ ¹	✓ ²	✓	✓	
Transactional Replication	✓ ³	✓ ⁴	✓	✓	
Oracle Replication				✓	Transactional replication with an Oracle database as a publisher
Web Services (HTTP Endpoints)			✓	✓	Support for native Web services, Web Services Description Language (WSDL), and Web authentication

¹ Subscriber only.

² Publish to up to 25 subscribers.

³ Subscriber only.

⁴ Publish to up to five subscribers.

Business Intelligence

Feature	Express	Workgroup	Standard	Enterprise	Comments
Report Server	See Comments	✓	✓	✓	Report Serv available for SQL Server Express in t SQL Server Express with Advanced

					Services download.
Report Builder		✓	✓	✓	End-user reporting to
Reporting Data Sources	¹	✓	✓	✓	
Scale Out Report Servers				✓	
Data Driven Subscriptions				✓	
Infinite Clickthrough				✓	
Data Warehousing			✓	✓	
Star Query Optimization	✓	✓	✓	✓	
SQL Analytical Functions	✓	✓	✓	✓	
BI Development Studio	See Comments ²	✓ ³	✓	✓	Integrated development environment building and debugging c integration, OLAP, data mining, and reporting solutions.
Enterprise Management Tools		✓	✓	✓	Integration SQL Management Studio, SQL Server Profi SQL Server Agent, Backup/Res
Native Support for Web Services (Service Oriented Architectures)	✓ ⁴	✓ ⁵	✓	✓	Allows acces data from a device.




Analysis Services			✓	✓	Powerful analytics and data mining capabilities.
Unified Dimensional Model (UDM)			✓	✓	Enterprise business data model enables fast, interactive ad hoc analysis of large data sets. Builds smarter reports that leverage centralized business logic and key performance indicators (KPIs), as well as the performance UDM.
Business Analytics			✓	✓	Multidimensional Expression (MDX) script and MDX debugger, .NET stored procedures, Time Intelligence Framework.
Advanced Business Analytics				✓	Account intelligence, metadata translation, perspective semi-additive measures.
Proactive Caching				✓	Provides automated caching for greater scalability and performance.
Advanced Data Management				✓	Partitioned cubes, parallel processing, server synchronization.

Full Writeback Support				✓	Dimensional cell writeback
Data Mining			✓	✓	Nine algorithms including decision and regression trees, clustering, logistic and linear regression, neural networks, naïve bayes, association, sequence clustering, and time series. Build smart reports that leverage centralized business log and KPIs, as well as the performance UDM.
Advanced Performance Tuning				✓	Additional options for tuning data mining model for the high accuracy, performance and scalability
SQL Server Integration Services Data Flow Integration				✓	Perform data mining prediction and training operations directly in your operational pipelines.
Text Mining				✓	Convert unstructured text data to structured data for analysis reporting, or analytical processing

					(OLAP), or c mining.
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- ¹ This edition can be profiled from a Standard or Enterprise Edition of SQL Server 2005.
- ² Report Designer only.
- ³ Report Designer only.
- ⁴ Reporting Services only.
- ⁵ Reporting Services only.

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