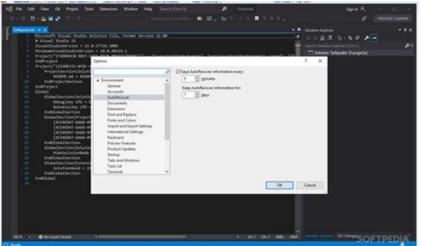
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Chinese, French, German, Italian, Japanese, Korean, Portuguese (Brazil), Russian, Spanish and Indonesian[3]TypeRelational database management system developed by Microsoft. As a database server, it is a software
product with the primary function of storing and retrieving data as requested by other software applications—which may run either on the same computer or on another computer across a network (including the Internet). Microsoft markets at least a dozen different editions of Microsoft SQL Server, aimed at different audiences and for workloads
ranging from small single-machine applications to large Internet-facing applications with many concurrent users. History of Microsoft SQL Server product—SQL Server The history of Microsoft SQL Server begins with the first Microsoft SQL Server The history of Microsoft SQL Server 1.0, a 16-bit server for the OS/2 operating system in 1989—and extends to the
current day. Its name is entirely descriptive, it being server software that responds to queries in the SQL language. Milestones MS SQL Server for OS/2 began as a project to port Sybase SQL Server for OS/2 began as a project to port Sybase SQL Server for OS/2 in 1989, by Sybase, Ashton-Tate, and Microsoft. SQL Server for OS/2 began as a project to port Sybase SQL Server for OS/2 began as a project to port Sybase SQL Server for OS/2 began as a project to port Sybase SQL Server for OS/2 in 1989, by Sybase, Ashton-Tate, and Microsoft.
6.0 is released in 1995, marking the end of collaboration with Sybase; Sybase would continue developing their own variant of SQL Server, Sybase Adaptive Server Enterprise, independently of Microsoft. SQL Server 7.0 is released in 1998, marking the conversion of the source code from C to C++. SQL Server 2005, released in 2005, finishes the
complete revision of the old Sybase code into Microsoft code. SQL Server 2012, released in 2012, adds columnar in-memory storage aka xVelocity. SQL Server 2017, released in 2017, adds Linux support for these Linux platforms: Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Ubuntu & Docker Engine.[4] SQL Server 2019, released in 2017, adds Linux support for these Linux platforms: Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Ubuntu & Docker Engine.[4] SQL Server 2019, released in 2017, adds Linux support for these Linux platforms: Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Ubuntu & Docker Engine.[4] SQL Server 2019, released in 2017, adds Linux support for these Linux platforms: Red Hat Enterprise Linux, SUSE Linux Enterprise Linux, SUSE Linux Enterprise Linux support for these Linux support for the support for th
2019, adds Big Data Clusters, enhancements to the "Intelligent Database", enhanced monitoring features, updated developer experience, and updates/enhancements for Linux based installations.[5] Currently As of July 2022[update], the following versions are supported by Microsoft: SQL Server 2014 SQL Server 2016 SQL Server 2017 SQL Server 2017 SQL Server 2019 and updates/enhancements for Linux based installations.
2019 From SQL Server 2016 onward, the product is supported on x64 processors only and must have 1.4 GHz processor.[6] The current version is 15.0.2000.5.[7] Editions Microsoft makes SQL Server available in multiple editions, with different feature sets and targeting
different users. These editions are:[8][9] Mainstream editions Enterprise SQL Server Enterprise SQL Server Enterprise Edition includes both the core database engine and add-on services, with a range of tools for creating and managing a SQL Server Enterprise Edition includes both the core database engine and add-on services, with a range of tools for creating and managing a SQL Server Enterprise Edition includes both the core database engine and add-on services, with a range of tools for creating and managing a SQL Server Enterprise Edition includes both the core database engine and add-on services, with a range of tools for creating and managing a SQL Server Enterprise Edition includes both the core database engine and add-on services, with a range of tools for creating and managing a SQL Server Enterprise Edition includes both the core database engine and add-on services, with a range of tools for creating and managing a SQL Server Enterprise Edition includes both the core database engine and add-on services, with a range of tools for creating and managing a SQL Server Enterprise Edition includes both the core database engine and add-on services, with a range of tools for creating and managing a SQL Server Enterprise Edition includes both the core database engine and add-on services.
processors (CPU cores).[10] Standard SQL Server Standard edition includes the core database engine, along with the stand-alone services. It differs from Enterprise edition in that it supports fewer active instances (number of nodes in a cluster) and does not include some high-availability functions such as hot-add memory (allowing memory to be
added while the server is still running), and parallel indexes. Web SQL Server Web Edition is a low-TCO option for Web hosting. Business intelligence Introduced in SQL Server 2012 and focusing on Self Service and Corporate Business intelligence Introduced in SQL Server 2012 and focusing on Self Service and Corporate Business intelligence Introduced in SQL Server 2012 and focusing on Self Service and Corporate Business Intelligence Introduced in SQL Server 2012 and focusing on Self Service and Corporate Business Intelligence Introduced in SQL Server 2012 and focusing on Self Service and Corporate Business Intelligence Introduced in SQL Server 2012 and focusing on Self Service and Corporate Business Intelligence Introduced in SQL Server 2012 and focusing on Self Service and Corporate Business Intelligence Introduced in SQL Server 2012 and focusing on Self Service and Corporate Business Intelligence Introduced in SQL Server 2012 and focusing on Self Service and Corporate Business Intelligence Introduced in SQL Server 2012 and focusing on Self Service and Corporate Business Intelligence Introduced in SQL Server 2012 and focusing on Self Service and Corporate Business Intelligence Introduced in SQL Server 2012 and focusing on Self Service And Introduced Introdu
the BI Semantic Model, Master Data Services, Data Quality Services and xVelocity in-memory analytics.[11] Workgroup Edition is a scaled
down, free edition of SQL Server, which includes the core database engine. While there are no limitations on the number of database files (4 GB database files prior to SQL Server Express 2008 R2).[13] It is intended as a replacement for MSDE. Two additional
editions provide a superset of features not in the original Express Edition. The first is SQL Server Express with Advanced Services adds full-text search capability and reporting services. [14] Specialized editions Azure Microsoft Azure SQL Database is the cloud-
based version of Microsoft SQL Server, presented as a platform as a service offering on Microsoft Azure. Azure MPP Azure SQL Data Warehouse is the cloud-based version of Microsoft Azure. Compact
(SQL CE) The compact edition is an embedded database engine. Unlike the other editions of SQL Server, the SQL CE engine is based on SQL Mobile (initially designed for use with hand-held devices) and does not share the same binaries. Due to its small size (1 MB DLL footprint), it has a markedly reduced feature set compared to the other editions.
For example, it supports a subset of the standard data types, does not support stored procedures or Views or multiple-statement batches (among other limitations). It is limited to 4 GB maximum database size and cannot be run as a Windows service, Compact Edition must be hosted by the application using it. The 3.5 version includes support for
ADO.NET Synchronization Services. SQL CE does not support ODBC connectivity, unlike SQL Server Developer Edition, but is limited by the license to be only used as a development and test system, and not as production server. Starting early 2016, Microsoft
made this edition free of charge to the public.[15] Embedded (SSEE) SQL Server 2005 Embedded (SSEE) SQL Server Express database engine which can be accessed only by certain Windows Services. Evaluation SQL Server Express database engine which can be accessed only by certain Windows Services.
Enterprise Edition, but is limited to 180 days, after which the tools will continue to run, but the server services will stop.[16] Fast Track SQL Server Fast Track is specifically for enterprise-scale data warehousing storage and business intelligence processing, and runs on reference-architecture hardware that is optimized for Fast Track SQL Server 
Introduced in SOL Server Express 2012, LocalDB is a minimal, on-demand, version of SOL Server that is designed for application developers. [18] It can also be used as an embedded database. [19] Analytics Platform System (APS) Formerly Parallel Data Warehouse (PDW) A massively parallel processing (MPP) SOL Server appliance optimized for
large-scale data warehousing such as hundreds of terabytes.[20] Datawarehouse Appliance Edition Pre-installed and configured as part of an appliance in partnership with Dell & HP base on the Fast Track architecture. This edition does not include SQL Server Integration Services, Analysis Services, or Reporting Services.sqlcmd Discontinued
editions MSDE Microsoft SQL Server Data Engine / Desktop Engine / Desktop Edition. SQL Server 7 and SQL Server 8 and application component, it did not include GUI management tools. Later, Microsoft also made available a web admin tool. Included with some versions of Microsoft Access, Microsoft development tools, and
other editions of SOL Server.[21] Personal Edition SOL Server 2000. Had workload or connected proxy, licensed for use as a mobile / disconnected proxy, licensed for use with SOL Server 2000 Standard edition.[21] Datacenter SOL Server 2008 R2 Datacenter is a full-
featured edition of SQL Server and is designed for datacenters that need high levels of application support and scalability. It supports 256 logical processors and virtually unlimited memory and comes with StreamInsight Premium edition. [22] The Datacenter edition has been retired in SQL Server 2012; all of its features are available in SQL Server
2012 Enterprise Edition.[12] Architecture The protocol layer implements the external interface to SQL Server and a client.
Initially designed and developed by Sybase Inc. for their Sybase SQL Server, TDS packets can be encased in other physical transport dependent protocols, including TCP/IP, named pipes, and shared memory. Consequently, access to SQL Server is available over these
protocols. In addition, the SQL Server API is also exposed over web services.[9] Data storage bata storage is a database, which is a collection of tables with typed columns. SQL Server API is also exposed over web services.[9] Data storage is a database, which is a collection of tables with typed columns.
binary (for unstructured blobs of data), Text (for textual data) among others. The rounding or symmetric Round (2.5, 0) gives 3. Microsoft SQL Server also allows user-defined composite types (UDTs) to be defined and used. It also
makes server statistics available as virtual tables and views (called Dynamic Management Views or DMVs). In addition to tables, a database can also contain other objects including views, stored procedures, indexes and constraints, along with a transaction log. A SQL Server database can also contain other objects including views, stored procedures, indexes and constraints, along with a transaction log. A SQL Server database can also contain other objects including views, stored procedures, and can span multiple OS-
level files with a maximum file size of 260 bytes (1 exabyte).[9] The data in the database are stored in primary data files with an extension, are used to allow the data of a single database to be spread across more than one file, and optionally across more than one file system. Log files are
identified with the .ldf extension.[9] Storage space allocated to a database is divided into sequentially numbered pages, each 8 KB in size. A page is the basic unit of I/O for SQL Server operations. A page is marked with a 96-byte header which stores metadata about the page including the page number, page type, free space on the page and the ID of
the object that owns it. The page type defines the data contained in the pages are allocated to tables and indexes; and a change map which holds information about the changes made to other pages since last backup or logging, or
contain large data types such as image or text. While a page is the basic unit of an I/O operation, space is actually managed in terms of an extent ("uniform extent types such as image or text. While a page is the basic unit of an I/O operation, space is actually managed in terms of an extent which consists of 8 pages. A database object can either span all 8 pages in an extent ("uniform extent") or share an extent which consists of 8 pages. A database object can either span all 8 pages in an extent ("uniform extent") or share an extent which consists of 8 pages. A database object can either span all 8 pages in an extent ("uniform extent") or share an extent which consists of 8 pages. A database object can either span all 8 pages in an extent ("uniform extent") or share an extent which consists of 8 pages. A database object can either span all 8 pages in an extent ("uniform extent") or share an
more than one page, so is limited to 8 KB in size. However, if the data exceeds 8 KB and the row contains varchar or varbinary data, the data in those columns are moved to a new page (or possibly a sequence of pages, called an allocation unit) and replaced with a pointer to the data. [23] For physical storage of a table, its rows are divided into a series
of partitions (numbered 1 to n). The partition size is user defined; by default all rows are in a single partition are stored in either B-tree or heap structure. If the table has an associated, clustered index to allow fast retrieval of rows, the
rows are stored in-order according to their index values, with a B-tree providing the index is in the leaf node of the leaves, and other nodes storing the index values for the leaf according to the index keys. An indexed view has the same storage
structure as an indexed table. A table without a clustered index is stored in an unordered heap structure. However, the table may have non-clustered indices to allow fast retrieval of rows. In some situations the heap structure has performance advantages over the clustered indices to allow fast retrieval of rows. In some situations the heap structure has performance advantages over the clustered indices to allow fast retrieval of rows.
Buffer management SQL Server buffers pages in RAM to minimize disk I/O. Any 8 KB page can be buffered in-memory, and the set of all pages currently buffered in memory. The buffer cache is managed by the Buffer Manager. Either
reading from or writing to any page copies it to the buffer cache. Subsequent reads or writes are redirected to the in-memory copy, rather than the on-disc version. The page is updated on the disc by the Buffer Manager only if the in-memory copy, rather than the on-disc version. The page is updated on the disc by the Buffer Manager only if the in-memory copy, rather than the on-disc version. The page is updated on the disc by the Buffer Manager only if the in-memory copy, rather than the on-disc version.
whereby the I/O operation is done in a background thread so that other operations do not have to wait for the I/O operation to complete. Each page is written along with its checksum when it is written. When reading the page back, its checksum is computed again and matched with the stored version to ensure the page has not been damaged or
tampered with in the meantime. [25] Concurrency and locking SQL Server allows multiple clients to use the same data, or clients update the same data, or clients attempt to read data that is in the process of being changed by another
client. SQL Server provides two modes of concurrency control: pessimistic concurrency control is being used, SQL Server controls concurrency control is being used. SQL Server controls concurrency control is being used. SQL Server controls concurrency control is being used.
the data as long as the lock is held. Shared locks are used when some data is being read—multiple users can read from data locked with a shared locks to be released. Locks can be applied on different levels of granularity—on entire tables, pages, or even on a per-row
basis on tables. For indexes, it can either be on the entire index or on index leaves. The level of granularity to be used is defined on a per-database basis by the database administrator. While a fine-grained locking system allows more users to use the table or index simultaneously, it requires more resources, so it does not automatically yield higher
performance. SQL Server also includes two more lightweight mutual exclusion solutions—latches and spinlocks—which are less resource intensive. SQL Server uses them for DMVs and other resources that are usually not busy. SQL Server also monitors all worker threads that acquire locks to ensure that they do not end
up in deadlocks—in case they do, SQL Server takes remedial measures, which in many cases are to kill one of the threads entangled in a deadlock and roll back the transaction it started. [9] To implement locking, SQL Server contains the Lock Manager maintains an in-memory table that manages the database objects and locks, if
any, on them along with other metadata about the lock. Access to any shared object is mediated by the lock manager, which either grants access to the resource or blocks it. SQL Server also provides the optimistic concurrency control mechanism, which is similar to the multiversion concurrency control used in other databases. The mechanism allows
a new version of a row to be created whenever the row, i.e., a row is additionally identified by the ID of the transaction that created the versions are moved out of the database into a system
database identified as Tempdb. When a row is in the process of being updated, any other request is an update statement, it will result in two different versions of the rows—both of them will be stored by the database, identified by their respective
transaction IDs.[9] Data retrieval and programmability The main mode of retrieving data from a SQL Server database is querying for it. The query is expressed using a variant of SQL server database is querying for it. The query is expressed using a variant of SQL server database is querying for it.
by the query processor, which figures out the sequence of steps that will be necessary to retrieve the requested data. The sequence of actions necessary to execute a query is called a query plan. There might be multiple ways to process the same query. For example, for a query that contains a join statement and a select statement, executing join on
both the tables and then executing select on the results would give the same result as selecting from each table and then execution plans. In such case, SQL Server chooses the plan that is expected to yield the results in the shortest possible time. This is called query optimization and is performed by the query
processor itself.[9] SQL Server includes a cost-based query optimizer which tries to optimize on the catabase schema, the database statistics and the system load at that time. It then decides which sequence to access the tables referred.
in the query, which sequence to execute the operations and what access the tables. For example, if the table has an associated index, whether the index is on a column which is not unique for most of the columns (low "selectivity"), it might not be worthwhile to use the index to access the
data. Finally, it decides whether to execute the query concurrently or not. While a concurrent execution is more costly in terms of total processors might mean it will execute faster. Once a query plan is generated for a query, it is temporarily cached. For further invocations of the same
query, the cached plan is used. Unused plans are discarded after some time.[9][26] SQL Server also allows stored procedures to be defined. Stored procedures to be defined. Stored procedures are parameterized T-SQL queries, that are stored in the server itself (and not issued by the client application as is the case with general queries). Stored procedures can accept values sent by
the client as input parameters, and send back results as output parameters. They can be selectively provided access to. Unlike other queries, stored procedures have an associated name, which is used at runtime to resolve
into the actual queries. Also because the code need not be sent from the client every time (as it can be accessed by name), it reduces network traffic and somewhat improves performance. [27] Execution plans for stored procedures are also cached as necessary. T-SQL Main article: T-SQL (Transact-SQL) is Microsoft's proprietary procedural
language extension for SQL Server. It provides REPL (Read-Eval-Print-Loop) instructions that extend standard SQL's instructions that can be performed
on SQL Server, including creating and altering database schemas, entering and editing data in the database as well as monitoring and managing the server functionality by sending T-SQL queries and statements which are then processed by the server and
results (or errors) returned to the client application. For this it exposes read-only tables from Which server statistics can be read. Management functionality is exposed via system-defined stored procedures which can be invoked from T-SQL. Linked
servers allow a single query to process operations performed on multiple servers. [28] SQL Server Native Client (a.k.a. SNAC) SQL Server Native Client is the native client side data access library for Microsoft SQL Server Native Client (a.k.a. SNAC) SQL Server Native Client is the native client side data access library for Microsoft SQL Server Native Client (a.k.a. SNAC) SQL Server Native Client is the native client side data access library for Microsoft SQL Server Native Client (a.k.a. SNAC) SQL Server Native Client (a
implementation, support for mirrored SQL Server databases, full support for all data types supported by SQL Server plug-ins for other data access
technologies, including ADO or OLE DB. The SQL Server Native Client can also be directly used, bypassing the generic data access layers.[29] On November 28, 2011, a preview release of the SQL Server 2005 includes a component named SQL CLR
("Common Language Runtime") via which it integrates with .NET Framework. Unlike most other applications that use .NET Framework runtime, i.e., memory, threading and resource management requirements of .NET Framework are satisfied by SQLOS itself, rather than the underlying Windows
operating system. SQLOS provides deadlock detection and resolution services for .NET code as well. With SQL CLR, stored procedures and triggers can be written in any managed .NET language, including C# and VB.NET. Managed code is
compiled to CLI assemblies and after being verified for type safety, registered at the database. After that, they can be invoked like any other procedure.[31] However, only a subset of the Base Class Library is available, when running code under SQL CLR. Most APIs relating to user interface functionality are not available.[31] When writing code for
SQL CLR, data stored in SQL Server databases can be accessed using the ADO.NET APIs like any other managed application that accesses SQL Server database session, different from the one in which the code is executing. To avoid this, SQL Server database session, different from the one in which the code is executing.
allows the connection to be redirected to the same session which already hosts the running code. Such connections are called context connections are called context connections and are set by setting context connection parameter to true in the connection string. SQL Server also provides several other enhancements to the ADO.NET API, including classes to work with tabular data
or a single row of data as well as classes to work with internal metadata about the data stored in the database. It also provides access to the XML features in SQL Server, including XQuery support. These enhancements are also available in T-SQL Procedures in consequence of the introduction of the new XML Datatype (query, value, nodes functions).
[32] Services SQL Server also includes an assortment of add-on services. While these are not essential for the operation of the database management system, they provide value added services on top of the core database system, they provide value added services on top of the core database management system.
their own API to control and interact with them. Machine Learning Services The SQL Server Machine Learning services operates within the SQL server instance, allowing people to do machine learning and data analytics without having to send data across the network or be limited by the memory of their own computers. The services come with
Microsoft's R and Python distributions that contain commonly used packages for data science, along with some proprietary packages (e.g. revoscalepy, RevoScaleR, microsoftml) that can be used to create machine models at scale. Analysts can either configure their client machine to connect to a remote SQL server and push the script executions to it
or they can run a R or Python scripts as an external script inside a T-SQL query. The trained machine learning model can be stored inside a database and used for scoring.[33] Service Broker communicates over TCP/IP and allows the different
components to be synchronized, via exchange of messages. The Service Broker, which runs as a part of the database engine, provides a reliable message queuing platform for SQL Server applications.[34] Service broker service programs routes The message queuing platform for SQL Server applications.
type defines the data format used for the messages are used in an conversation between services and who can put messages in the queue acts as storage provider for the messages. They are internally
implemented as tables by SQL Server, but don't support insert, update, or delete functionality. The service program receives and processes service broker messages. Usually the service broker is located on the network.[35] Also, service
broker supports security features like network authentication (using NTLM, Kerberos, or authorization certificates), integrity checking, and message encryption.[35] Replication Services SQL Server Replication Services are used by SQL Server to replicate and synchronize database objects, either in entirety or a subset of the objects present, across
replication agents, which might be other database servers across the network, or database caches on the client side. Replication:[36]
Transaction replication Each transaction made to the publisher databases in near real time. [37] Merge replication Changes made at both the publisher databases are tracked, and subscriber databases in near real time.
 periodically the changes are synchronized bi-directionally between the publisher and the subscribers. If the same data has been modified differently in both the publisher and the subscriber databases, synchronization will result in a conflict which has to be resolved, either manually or by using pre-defined policies, rowguid needs to be configured on a
column if merge replication is configured.[38] Snapshot replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the data) and replication publishes a copy of the entire database (the then-snapshot of the database (the then-snapshot of th
adds OLAP and data mining capabilities for SQL Services supports the XML for Analysis Services supports MOLAP, ROLAP and HOLAP storage modes for data. Analysis Services supports the XML for Analysis standard as the underlying communication protocol. The cube data can be accessed using MDX and LINQ[40] queries.[41] Data mining specific
functionality is exposed via the DMX query language. Analysis Services includes various algorithm, linear and logistic regression analysis, and neural networks—for use in data mining.[42] Reporting Services Main article: SQL Server
Reporting Services SQL Server Reporting Services (SSRS) is a report generation environment for data gathered from SQL Server databases. It is administered via a web interface. Reporting services features a web services interface to support the development of custom reporting applications. Reports are created as RDL files.[43] Reports can be
designed using recent versions of Microsoft Visual Studio (Visual Studio, installed or with the included Report Builder. Once created, RDL files can be rendered in a variety of formats, [45][46] including Excel, PDF, CSV, XML, BMP, EMF, GIF, JPEG, PNG, and TIFF, [47]
and HTML Web Archive. Notification Services Main article: SQL Server 2000,[48] Notification Services was bundled as a post-release add-on for SQL Server 2005.[49][50] SQL Server Notification Services is a
mechanism for generating data-driven notifications, which are sent to Notification Services subscribers for a specific event or transaction (which is registered on the database server as a trigger); when the event occurs, Notification Services can use one of three methods to send a message to the subscriber informing about the
occurrence of the event. These methods include SMTP, SOAP, or by writing to a file in the filesystem.[51] Notification Services was discontinued by Microsoft with the release of SQL Server 2008 in August 2008, and is no longer an officially supported component of the SQL Server database platform. Integration Services Main article: SQL Server
Integration Services SQL Server Integration Services (SSIS) provides ETL capabilities for SQL Server for data import, data integration sources, querying data, transforming data, transforming data, transforming data integration, de-duplication, de-duplica
/normalization and merging of data—and then exporting the transformed data into destination databases or files. 521 Full Text Search service is a specialized indexing and guerving service for unstructured text stored in SOL Server databases. The full text
search index can be created on any column with character based text data. It allows for words to be searched for in the text columns. While it can be performed with the SQL LIKE operator, using SQL Server Full Text Search service can be more efficient. Full allows for inexact matching of the source string, indicated by a Rank value which can range
from 0 to 1000—a higher rank means a more accurate match. It also allows linguistic matching ("inflectional search"), i.e., linguistic variants of a word (such as a verb in a different tense) will also be a match for a given word (but with a lower rank than an exact match). Proximity searches are also supported, i.e., if the words searched for do not occur
in the sequence they are specified in the query but are near each other, they are also considered a match. T-SQL exposes special operators that can be used to access the FIS capabilities.[53][54] The Full Text Search engine is divided into two processes: the Filter Daemon process (msftefd.exe) and the Search process (msftefd.exe). These processes
interact with the SQL Server. The Search process includes the indexer (that creates the full text indexer) and the full text query processor. The indexer scans through text from the binary blob (for example, when a Microsoft Word document
is stored as an unstructured binary file in a database). The iFilters are hosted by the Filter Daemon process. Once the text is extracted, the Filter Daemon process breaks it up into a sequence of words and hands it over to the indexer. The indexer filters out noise words, i.e., which occur frequently and are not useful for search.
With the remaining words, an inverted index is created, associating each word with the columns they were found in. SQL Server itself includes a Gatherer component that monitors changes to tables and invokes the indexer in case of updates. [55] When a full text query is received by the SQL Server query processor, it is handed over to the FTS query
processor in the Search process. The FTS query processor breaks up the query into the constituent words, and uses an inbuilt thesaurus to find out the linguistic variants for each word. The words are then queried against the inverted index and a rank of their accurateness is computed. The results are returned to the client
via the SOL Server process. [55] SOLCMD SOLCMD is a command line application that comes with Microsoft SOL Server, and exposes the management features of SOL Server. It allows SOL gueries to be written and executed from the command prompt. It can also act as a scripting language to create and run a set of SOL statements as a script. Such
scripts are stored as a .sql file, and are used either for management of databases or to create the database schema during the deployment of a database. SQLCMD was introduced with SQL Server 2005 and has continued through SQL Server 2005 and last continued through SQL Server versions 2008, 2014, 2016, 2016, 2016 and 2019. Its predecessor for earlier versions was OSQL and ISQL.
which were functionally equivalent as it pertains to TSQL execution, and many of the command line parameters are identical, although SQLCMD adds extra versatility. Visual Studio Microsoft Visual Stu
code to be executed by SQL CLR. It also includes a data designer that can be used to graphically create, view or edit database schemas. Queries as well. SQL Server Management Studio Main article: SQL Server Management Studio SQL Server
Management Studio is a GUI tool included with SQL Server 2005 and later for configuring, managing, and administering all components within Microsoft SQL Server. The tool includes both script editors and graphical tools that work with objects and features of the server. [56] SQL Server Management Studio replaces Enterprise Manager as the
primary management interface for Microsoft SQL Server SQL Server Management Studio is also available for SQL Server Management Studio is the Object Explorer, which allows the
user to browse, select, and act upon any of the objects within the server.[58] It can be used to visually observe and analyze query plans and optimize the database performance, among others.[59] SQL Server Management Studio can also be used to create a new database, alter any existing database schema by adding or modifying tables and indexes.
or analyze performance. It includes the query windows which provide a GUI based interface to write and execute queries. [9] Azure Data Studio Azure Data Studio is a cross platform query editor available as an optional download. The tool allows users to write queries; export query results; commit SQL scripts to Git repositories and perform basic
server diagnostics. Azure Data Studio supports Windows, Mac and Linux systems.[60] It was released to General Availability in September 2018. Prior to release the preview version of the application was known as SQL Server Operations Studio.
Business Intelligence Development Studio (BIDS) is the IDE from Microsoft Used for developing data analysis and Business Intelligence solutions utilizing the Microsoft Visual Studio development environment but is customized with the SQL Server
services-specific extensions and project types, including tools, controls and projects for reports (using Reporting Services), Cubes and data mining structures (using Analysis Services), Cubes and data mining structures (using Analysis Services). [61] For SQL Server 2012 and later, this IDE has been renamed SQL Server Data Tools (SSDT). See also Comparison of relational database management systems
Comparison of object-relational database management systems SQL compliance XLeratorDB References ^ "Editions and supported features of SQL Server 2019 (15.x)". 4 November 2019. Retrieved 23 December 2020. ^ Lextrait, Vincent (July 2010). "The
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