

SQL Server Database Developer Terminologies

When recruiting for a SQL Server database developer/engineer (DBE) or database administrator DBA, you may see some of the terms below in either the job description or resume. I have created some of these terms and how they are used to help you during the process. Aside from just describing the terms I have also included how the technology is used, this I believe makes it easier to understand the technology, how it's used in the company and why perhaps the hiring manager needs it for that IT job role function.

Please note that this list is not exhaustive, more terms are added on a frequent basis, so check our website regularly.

For the difference between a database developer and database administrator, please see <http://technicalrecruitingbook.com/resources/it-recruiters-only/database/>. For questions email technicalrecruiter@technicalrecruitingbook.com

Database Term	Description	Use
SQL	SQL Structured Query Language, SQL (pronounced SEQUEL), is a standard language for accessing and manipulating database systems	Used by developers to write code that manipulates data stored in a database.
T-SQL	Transact-SQL, this is Microsoft's strain of SQL language	Used to write database code to create tables, stored procedures and other database objects
Stored Procedure	AKA - Procs, these are a collection of SQL statements that are saved and run automatically in the database by one or more programs	Used for its reduced development cost and reliability to run repeatable database tasks
View	Is a query that acts like a filter or a window to an underlying table, hiding the structure of the table(s) from the user	Used as an alternative way of looking at the data in one or more tables. Also used as a security measure to hide the makeup of the table
SSRS	SQL Server Reporting Services - this is Microsoft's reporting application. It's a bundled application in the SQL Server Software. SSRS comes bundled in the SQL Server software	It's used for creating, deploying and managing web-based as well as traditional reports from the database.
SSAS	SQL Server Analysis Services delivers business intelligence applications by using OLAP and data mining capabilities. SSAS is bundled in SQL Server software.	Used to create Business Intelligence applications
SSIS	SQL Server Integration Services - is a tool or service bundled in SQL Server for performing data transformations solutions	Used for ETL (Extraction, Transformation and Loading) processes to extract, transform and load data from a variety of sources (flat file, excel, xml, csv) into SQL Server or vice versa.

SSMS	SQL Server Management Studio - this is an environment for configuring, managing and administering SQL Server tools and components.	Used to access and manage all components of SQL Server tools. It's like a control panel for managing all the bundled applications in SQL Server.
OLAP	Online Analytical Processing is a database technology for administering and presenting multi-dimensional data (usually a repository or static data) for analysis	Used to create decision support or Business Intelligence applications
OLTP	Online Transaction Processing is characteristic of database applications developed for managing changing (almost real-time) data, data that is not static.	Used to manage and process database applications in a real-time environment. For instance a bank ATM uses OLTP based applications which processes information in real-time, otherwise imagine the mayhem that could occur if an update in your account status (like closing an account) 20mins ago is not available and allows withdrawal even after the account is closed!
DTS	Data Transformation Services - this is the previous name for SSIS (SQL Server Integration Services)	Used to perform data extraction, loading and transformation
UML	Unified Modeling Language is a language for designing and documenting an object-oriented system.	Used for the architecture design of software systems
BIDS	Business Intelligence Development Studio is a Visual Studio development environment bundled in SQL Server. BIDS includes SSAS, SSIS and SSRS projects for developing Business Intelligence applications	Used to create business intelligence applications
BI	Business Intelligence is a term used to describe strategies for analyzing data warehouse data in order to make business decisions that improve a business.	Used to provide in-depth analysis of data for better decision making.
Replication	Replication is a technology for copying and distributing data and database objects (tables, stored procedure, views) from one database to another.	Used as high availability and data redundancy solution to synchronize data between different databases.
Log Shipping	This is a process of automatically sending backup logs from a primary database to a secondary one	Used for high availability, data redundancy, backup and/or disaster recovery solutions. The secondary server acts as a backup server.
ETL	Extraction, Transformation and Loading - is a term used for the process of transforming data from a variety of sources and loading it into SQL Server or any other database. SSIS is an example of a program that provides the ETL functionality.	Used for extracting, importing, exporting, transforming and loading data from one database to another