



What is recovery model in sql server

The #1 task that every DBA needs to be able to perform perfectly is to recover a database should it become corrupted for some reason. The recovery model of a database when a disaster strikes, then they better dust off their resume and start looking for a new line of work. Part of a good database recovery plan is to first understand what recovery models are available. The recovery models are available. The recovery model of a database determines the types of database determines the types of database backups that can be taken, which in turn determines the types of database database determines the types of database da Each database within SOL Server has a recovery model setting. SOL Server has three different recovery models: Simple, Full, and Bulk-Logged. The recovery model setting determines what backup and restore options are available for a database, as well as how the database engine handles storing transaction log records in the transaction log. The transaction log is a detailed log file that is used to record how the database is updated for each transaction. The SQL Server engine uses this log to maintain the integrity of the database to a consistent state. The recovery model for a database determines how much data the SQL Server engine needs to write to the transaction log, and whether or not a point-in-time restore can be performed. The initial recovery model setting for a new database is set based on the recovery model of the model system database. A database is recovery model setting for a new database is set based on the recovery model setting for a new database is set based on the recovery model setting for a new database. be changed easily, by either using SSMS or TSQL code. To better understand the details of each one of these recovery models. Simple Recovery models. Simple Recovery models and how they affect the backup and restore options available, let me review each of the available recovery models. model is used, each transaction is still written to the transaction logs records will eventually be removed automatically when a checkpoint occurs, transaction log backups are not supported when using the simple recovery model. This means point-in-time restores cannot be performed when a database has its recovery model set to SIMPLE. Because the transaction log is automatically cleaned up in this mode, this helps keep the transaction log small and from growing out of control. With the simple recovery model, you can only perform full and differential backups. Because the simple recovery model doesn't support using transaction log backups, you can only restore a database needs to support being restored to a point-in-time other than when a full or differential backup completes, then a different recovery model needs to be used. Full Recovery model Just like it sounds, the full recovery model, all transaction log after the transaction is completed. The transaction log backup is performed against a database that is in full recovery mode, the log records are written to the transaction log backup, and the completed transaction log backup is performed. Since every transaction is being written to the transaction log, the full recovery model supports point-in-time restores, meaning a database that is fully logged can be restored to any point in time. But it also means the transaction log needs to be big enough to support logging of all the transaction log backup is run. If an application performs lots of transactions, there is the possibility that the transaction log becomes full. When the transaction log becomes full, the database stops accepting transaction log is truncated. Therefore, when a database uses the full recovery model, you need to ensure transaction log backups are taken frequently enough to remove the completed transaction filling up the log, other operations like index create/alter and bulk load operations also write lots of information to the transaction log. If you find that your transaction log keeps filling up due to the index and bulk load operations are being performed. Bulk-logged recovery model while these operations are being performed. Bulk-logged recovery model while these operations like BULK INSERT, SELECT INTO, or CREATE INDEX are executed. Bulk-logged recovery model functions similar to the full recovery model functions are running. Minimal logging helps keep the log smaller, by not logging as much information. Bulk-Logged recovery model improves the performance of large bulk loading operations by reducing the amount of logging performed. Additionally, because bulk-logged transaction log, which reduces the chance of the transaction log running out of space. Because bulk-logged operations are minimally logged, it affects point-in-time recoveries can still be performed when using the bulk-logged recovery model in some situations. If the database should become damaged while a minimal bulk-logged recovery model in some situations. the first bulk-logged operation. When the transaction log backup contains a bulk logged operation, the stopat options cannot be used. If no bulk-logged recovery model, then you can still do a point-in-time restore just like you can in the full recovery model. The bulk-logged recovery model, then you can still do a point-in-time restore just like you can in the full recovery model. recovery model is a great way to minimize transaction log space and improve the performance of large bulk-load operations. But keep in mind, during the time a bulk-load operations you should take a transaction log backup just prior to a bulk-load operation, and then another one right after the bulk-load operation completes. By doing this, a point-in-time recovery can be perform using any transaction log backups taken after the special log backups taken following the completion of the Which Recovery Model is being Used? There are multiple ways to determine which recovery model is being used. One option is to use SQL Server Management Studio tool to find the recovery model of a database. To do this, first right-click on a database, then select the "Properties" item from the drop-down. Once the bulk-load operation. database properties are displayed, select the "Options" item from the left context menu. When this is done, the window in Figure 1 will display. Figure 1 will display the recovery Model options for a database is to run the TSQL code found in Listing 1. Listing 1. Listing 1. Code to Display Recovery Model SELECT name, recovery model for a database might need to change. If a database might need to change the recovery model for a database might need to change. the recovery model needs to be changed, it can easily be changed by running the code in Listing 2. Listing 2. Changing the recovery model of the AdventureWorks2017 database was changed to FULL. Additionally, the Database Properties page of SSMS, as shown in Figure 1, can be used to change the database recovery model field and then click on the OK button. Restoring Databases Using Each Recovery Model The recovery model determines the kind of backups that can be taken for a database, which in turn determines what options you have for recovering a corrupted database. Let me explore how each recovery model might affect the restore options for a common problem that occurs, which causes a database to become corrupted. The common problem I will explore is when a TSQL programmer incorrectly updates a database and then asks the DBA to restore the database to some point-in-time prior to the database being corrupted by the erroneous update process. In the real world, a DBA will more than likely be required to perform more database being corrupt due to a hardware failure. In the sections below, I will explore at least one option that could be used to recovery models. Simple recovery models. Simple recovery model, you can use full backup or a full and a differential backup to restore a database when it becomes corrupted, like in the event of a programming error. Since transaction log backups cannot be taken while using the simple recover a corrupted database, you need to restore the full database backup and possibly a differential database back that was taken just prior to the corruption occurring. Restoring full and differential backups leave the database since these backups completed will be missing from the database along with the updates performed by the programming error. Full Recovery Model Unlike the simple recovery model, the full backup. If the full backup is used, then the recovered database would lose the same amount of updates as the simple recovery model restore in the prior section. Another option is to use the point-in-time recovery model. Doing a point-in-time recovery means a DBA can recovery means a DBA can recovery means a before the erroneous update statements were performed. Any updates that were done to the database after the full backup but before the restore point will not be lost, unlike when using the simple recovery model. In order to restore a database to a point in time after the full backup. If a transaction log backup taken after the full backup, a database to a point in time after the full backup. database corruption would be to restore the database using only the last full backup. In this case, the amount of data loss would be to restore to a point-in-time after the full backup. One of those options would be to use a differential backup. A differential backup is a backup that contains all the changes to a database since the last full backup. Bulk-logged Recovery Model Just like with the full recovery model, the bulk-logged recovery model does support point-in-time restores, as long as the point in time of the recovery model does support point-in-time restores. Therefore, if a database gets corrupted by a programming error while using the bulk-logged recovery model, a DBA could still recover the database as long as the corruption occurs before or after the transaction log backup that contains a bulk-logged operation. If the update does occur while a bulk-logged operation is being performed, then the best a DBA can do is to restore to the point-in-time of the last transaction log backup taken prior to the bulk-logged operation. Even though a DBA might not be able to restore to any point in time covered by a transaction log backup when the transaction log backup when the transaction log backup taken prior to the bulk-logged operation. as long as the transaction log doesn't contain any bulk-logged operations. Recovery Models The recovery model of a database determines what backup/restore options are available. It also tells SQL Server how the transaction log should be managed. The recovery model also determines what recovery options are available for a database. With the simple recovery model, the only point that a database can be restored to is the last full backup or a differential. Whereas the full backup using a point-in-time restore. It is important to make sure each database on an instance has the appropriate recovery models allow a database to be recovery models allow a database to be recovered to a point after the full backup using a point-in-time restore. It is important to make sure each database to be recovery models allow a database to be recovery model backup using a point-in-time restore. It is important to make sure each database to be recovery models allow a database to be recovered to a point after the full backup using a point-in-time restore. setting based on the backup and restore requirements of the applications that use a database. Only by understanding the application backups and recovery model be set appropriately. If you want to understand more about backups and recovery models then, I'd suggest you consider reading about backup and restore options available in the Microsoft documentation that can be found here.

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