How to Restore a Microsoft SQL Database to a Point-in-Time

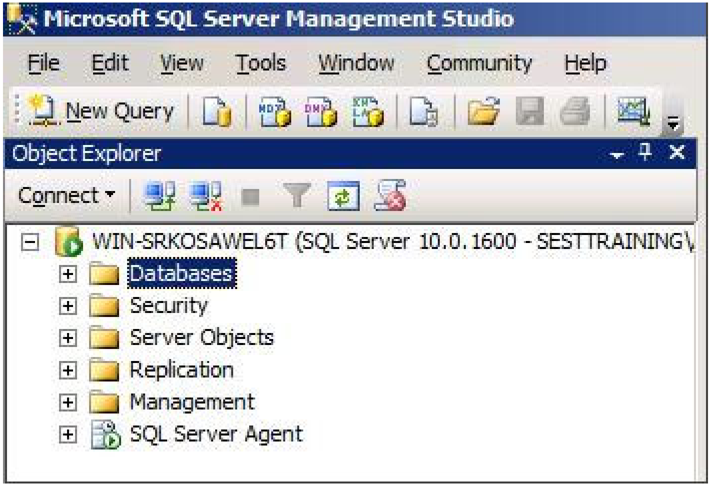
https://campus.barracuda.com/doc/15892599/

Flat File
This article describes how to restore a SQL database to a point-in-time, and then restore the database to working condition using SQL Management Studio. Before completing this solution, you must first Restore the Microsoft Database to a Flat File.

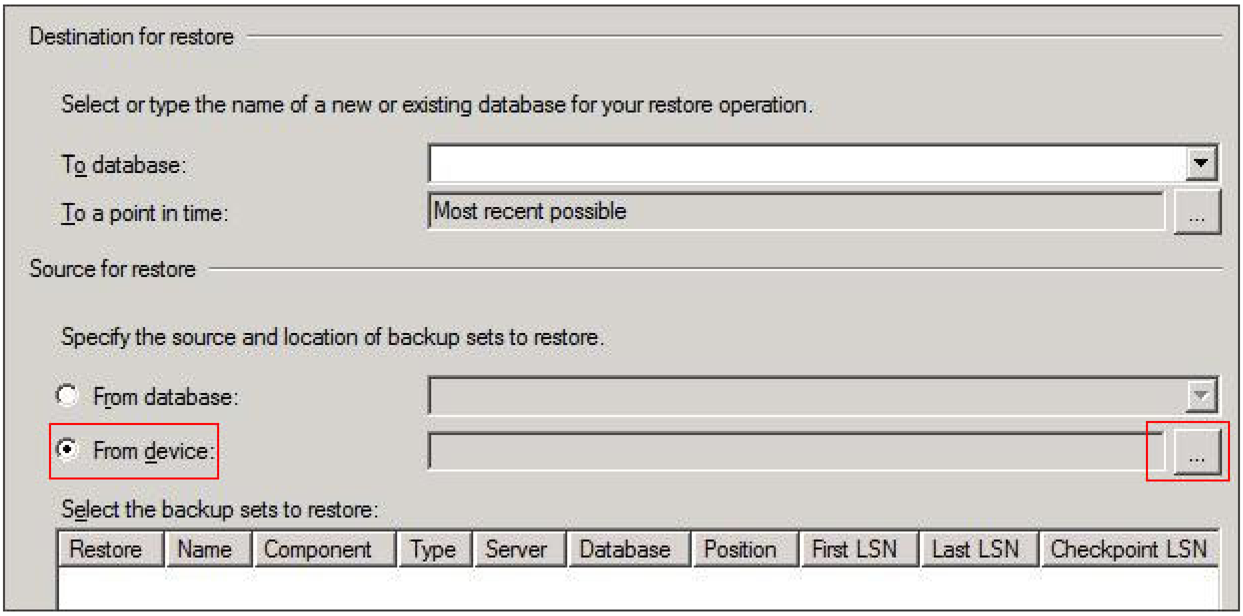
Step 1. Restore the Database

Use the following steps to restore the database:

1. Open Microsoft SQL Server Management Studio, and navigate to **Databases**:


Microsoft SQL Server Management Studio
File Edit View Tools Window Community Help
New Query
Object Explorer
Connect
WIN-SRKOSAWEL6T (SQL Server 10.0.1600 - SESTTRAINING\
Databases
Security
Server Objects
Replication
Management
SQL Server Agent

2. Right-click **Databases**, and click **Restore Database**. In the **Source for restore** section, select **From Device**, and click the browse button:



Destination for restore

Select or type the name of a new or existing database for your restore operation.

To database:

To a point in time: Most recent possible

Source for restore

Specify the source and location of backup sets to restore.

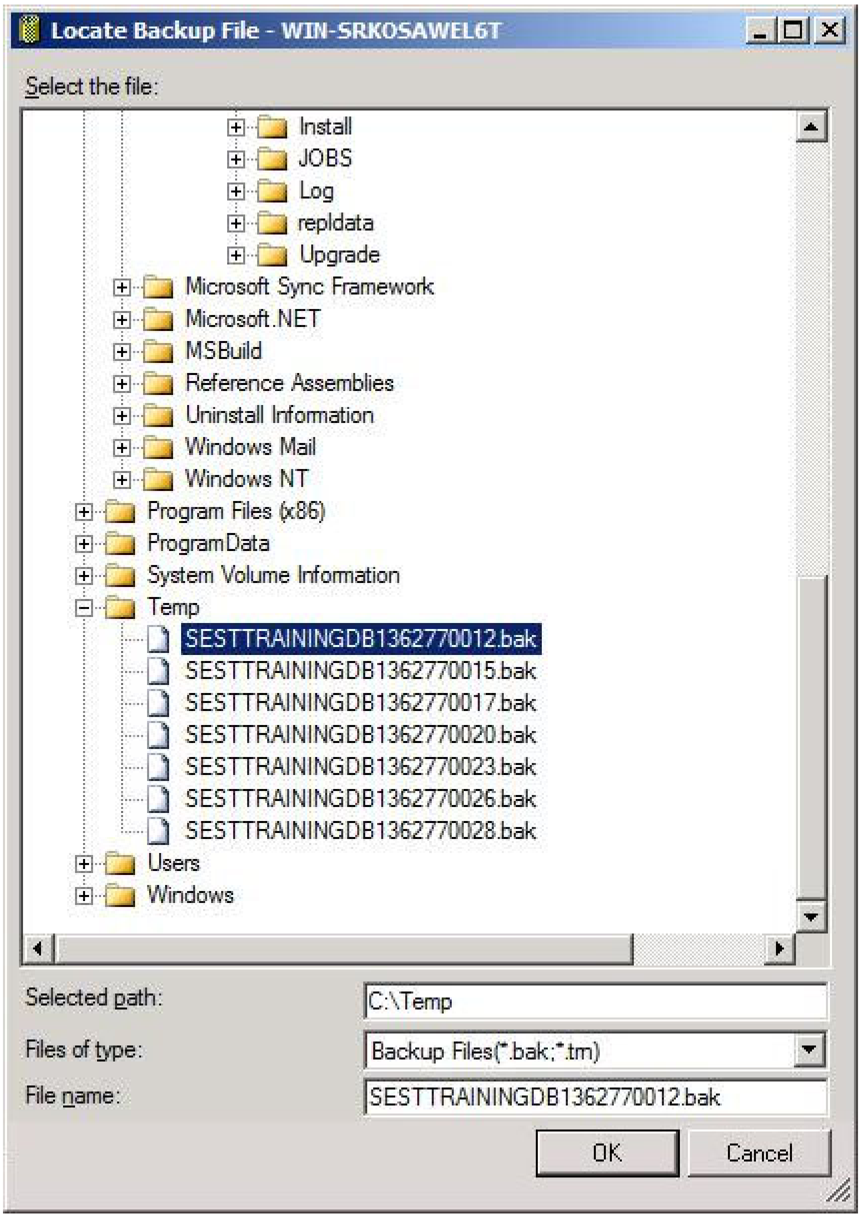
○ From database:

● From device:

Select the backup sets to restore:

Restore	Name	Component	Type	Server	Database	Position	First LSN	Last LSN	Checkpoint LSN

3. Click **Add** in the **Specify Backup** window. Browse to the location of your recently restored flat files. Choose the Full backup file which should be the first backup file in the list:

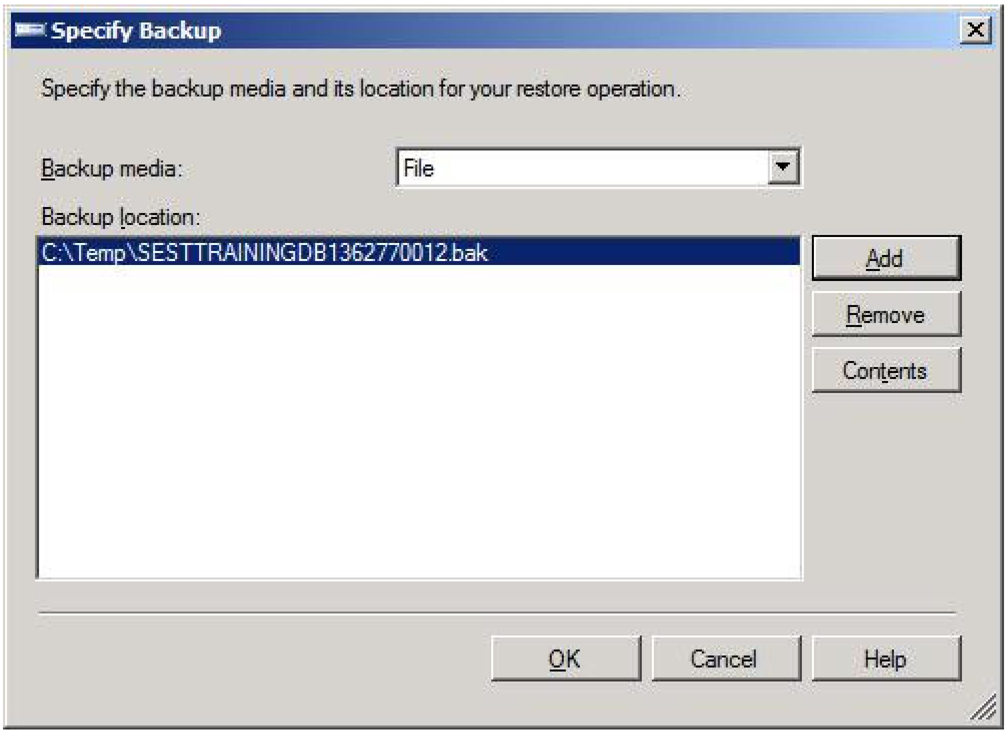

Locate Backup File - WIN-SRKOSAWEL6T
Select the file:
Install
JOBS
Log
repldata
Upgrade
Microsoft Sync Framework
Microsoft.NET
MSBuild
Reference Assemblies
Uninstall Information
Windows Mail
Windows NT
Program Files (x86)
ProgramData
System Volume Information
Temp
SESTTRAININGDB1362770012.bak
SESTTRAININGDB1362770015.bak
SESTTRAININGDB1362770017.bak
SESTTRAININGDB1362770020.bak
SESTTRAININGDB1362770023.bak
SESTTRAININGDB1362770026.bak
SESTTRAININGDB1362770028.bak
Users
Windows
OK
Cancel

Selected path: C:\Temp

Files of type: Backup Files(*.bak;*.trn)

File name: SESTTRAININGDB1362770012.bak

4. Click **OK**; the **Specify Backup** window displays:



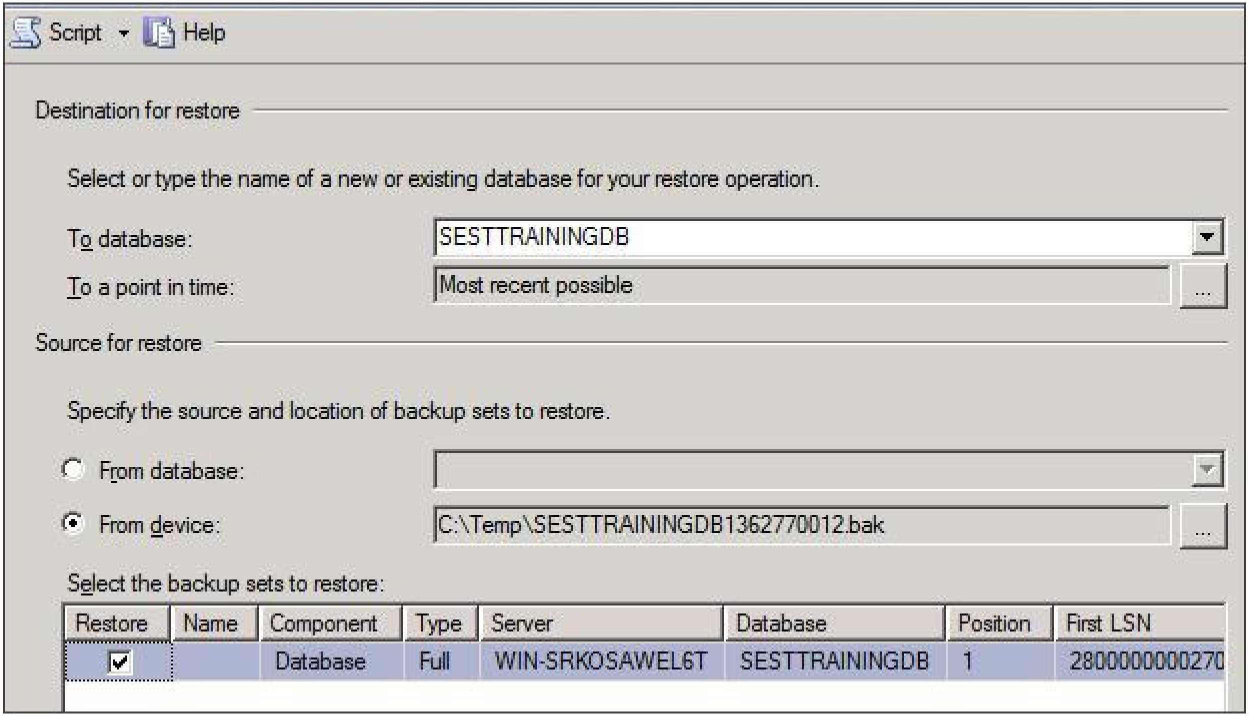
Specify the backup media and its location for your restore operation.

Backup media: File

Backup location:

C:\Temp\SESTTRAININGDB1362770012.bak

5. Click **OK**. In the **Destination for restore** section, select the database to which you wish to restore, and in the **Select the backup sets to restore** section, select the backup file you selected above in step **3**:



Destination for restore

Select or type the name of a new or existing database for your restore operation.

To database: SESTTRAININGDB

To a point in time: Most recent possible

Source for restore

Specify the source and location of backup sets to restore.

○ From database:

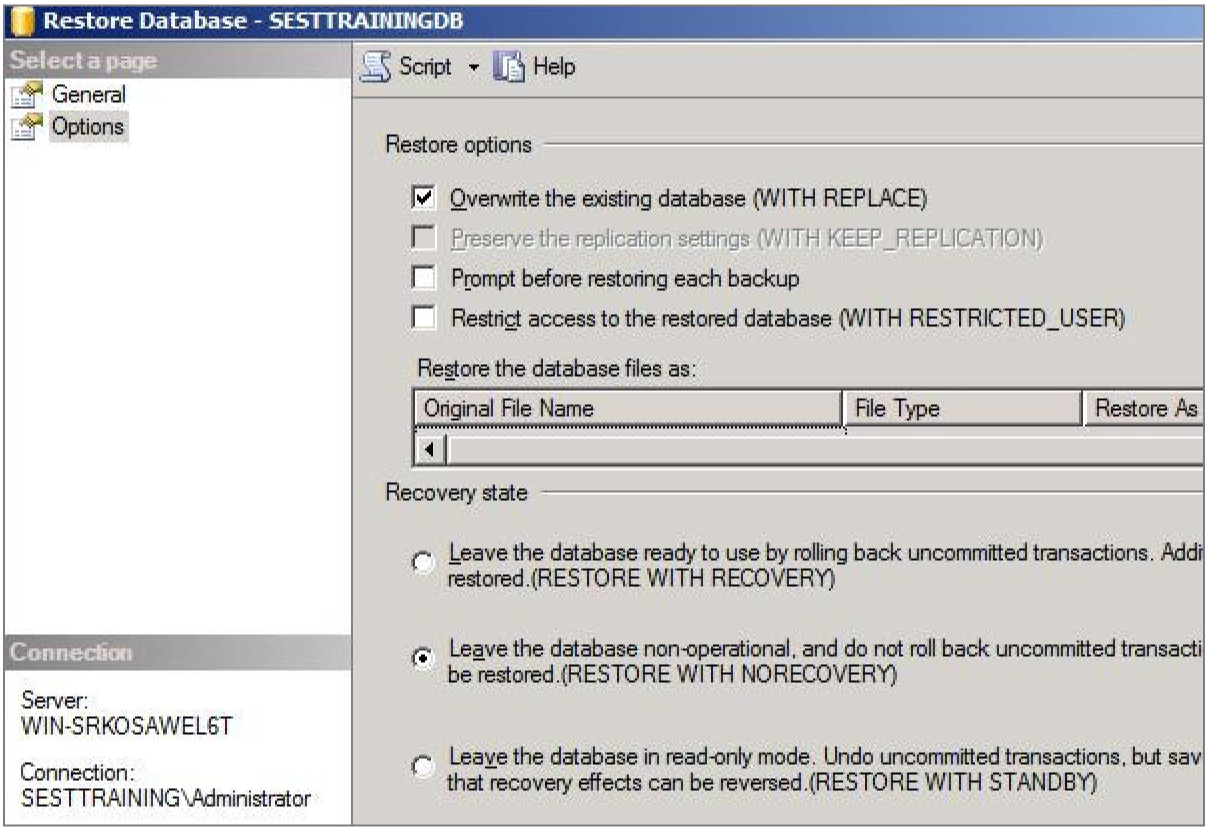
● From device: C:\Temp\SESTTRAININGDB1362770012.bak

Select the backup sets to restore:

Restore	Name	Component	Type	Server	Database	Position	First LSN
☑		Database	Full	WIN-SRKOSAWEL6T	SESTTRAININGDB	1	2800000000270

6. In the left pane, click **Options**, and select the following:
   - In the **Restore options** section, select **Overwrite the existing database (WITH REPLACE)**, and leave the other options unselected.
   - In the **Recovery state** section, select **Leave the database non-operational, and do not roll back uncommited transactions. Additional transaction logs can be**

restored. (RESTORE WITH NORECOVERY):



Restore options

☑ Overwrite the existing database (WITH REPLACE)

□ Preserve the replication settings (WITH KEEP_REPLICATION)

□ Prompt before restoring each backup

□ Restrict access to the restored database (WITH RESTRICTED_USER)

Restore the database files as:

Original File Name	File Type	Restore As

Recovery state

○ Leave the database ready to use by rolling back uncommitted transactions. Addi restored.(RESTORE WITH RECOVERY)

● Leave the database non-operational, and do not roll back uncommitted transacti be restored.(RESTORE WITH NORECOVERY)

○ Leave the database in read-only mode. Undo uncommitted transactions, but sav that recovery effects can be reversed.(RESTORE WITH STANDBY)

Server:
WIN-SRKOSAWEL6T

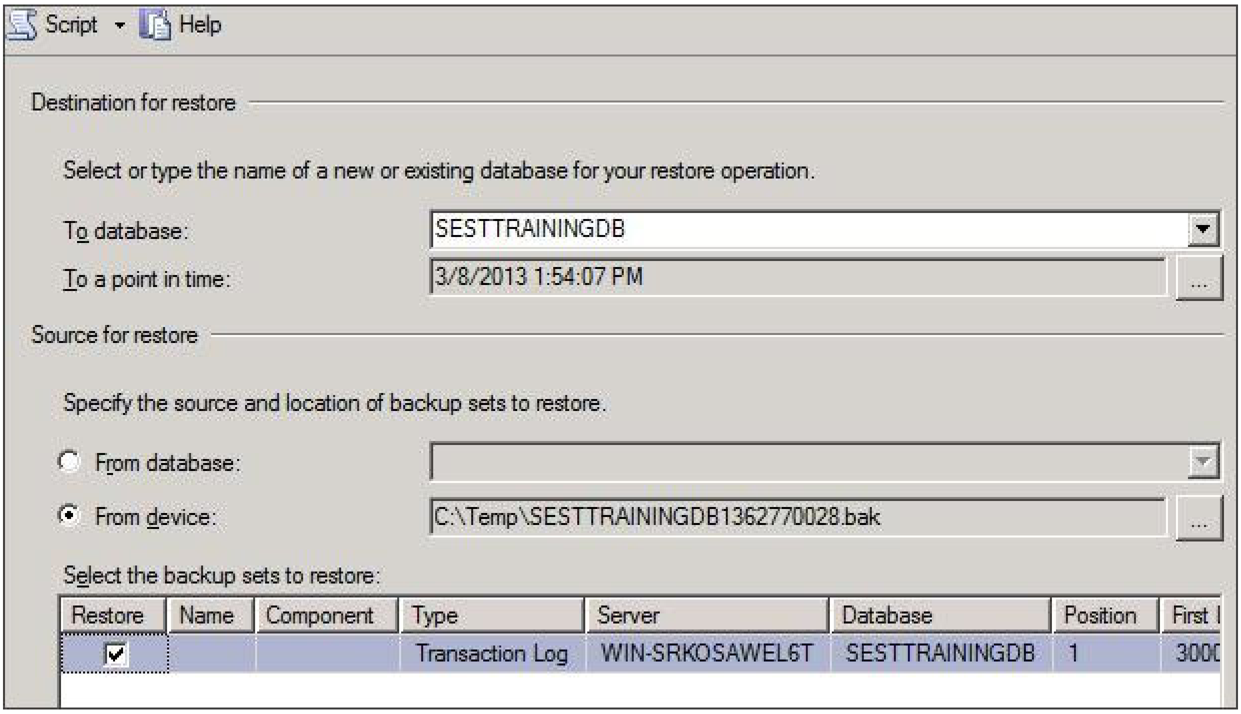
Connection:
SESTTRAINING\Administrator

7. Click **OK** to perform the restore.
8. Complete these steps for each incremental backup file, including the **.tm** file, until you reach the incremental file containing the point-in-time file to which you wish to restore.
9. A "Restoring" message displays; you can now proceed with the next section, Step 2. *Restoring to a Point-in-Time.*

Step 2. Restore to a Point-in-Time

Use the following steps to restore the last incremental file containing the point-in-time:

1. In Microsoft SQL Server Management Studio, right-click **Databases**, and click **Restore Database**.
2. In the **Source for restore** section, select **From Device**, and click the browse button.
3. Click **Add** in the **Specify Backup** window. Browse to the location of your recently restored flat files, select the incremental backup file containing the point-in-time to restore to, and click **OK.**
4. Click **OK** in the **Specify Backup** window. In the **Select the backup sets to restore section**, check the backup file you added in the previous step.
5. In the **Destination for restore** section, select the database to which to restore:



Destination for restore

Select or type the name of a new or existing database for your restore operation.

To database: SESTTRAININGDB

To a point in time: 3/8/2013 1:54:07 PM

Source for restore

Specify the source and location of backup sets to restore.

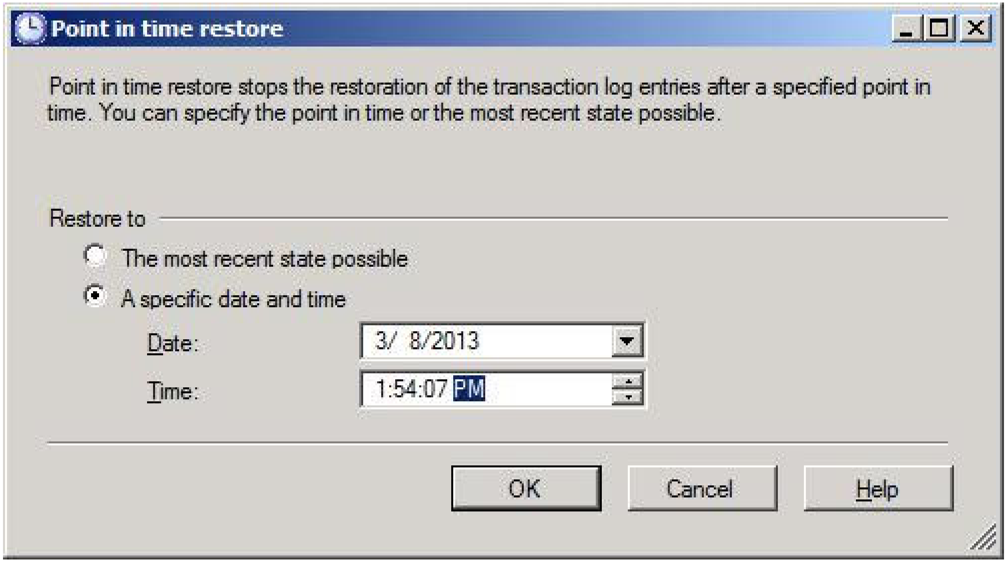
○ From database:

● From device: C:\Temp\SESTTRAININGDB1362770028.bak

Select the backup sets to restore:

Restore	Name	Component	Type	Server	Database	Position	First
☑			Transaction Log	WIN-SRKOSAWEL6T	SESTTRAININGDB	1	300

6. In the **Destination for restore section**, click the browse button following **To a point in time**; the **Point in time restore** window displays.
7. Select **a specific date and time**, and choose the date and time to which to restore:



Point in time restore stops the restoration of the transaction log entries after a specified point in time. You can specify the point in time or the most recent state possible.

Restore to

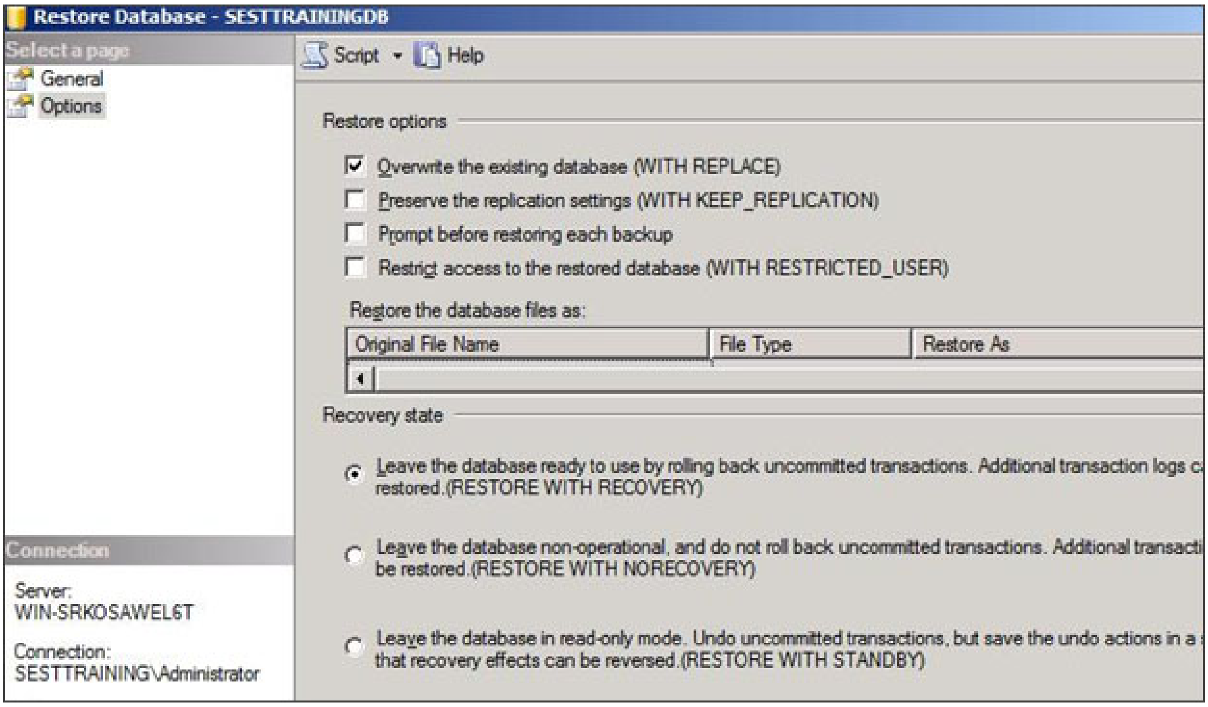
○ The most recent state possible

● A specific date and time

Date: 3/ 8/2013

Time: 1:54:07 PM

8. Click **OK**. In the left pane, click **Options**, and make the following selections:
   - In the **Restore options** section, select **Overwrite the existing database**, and leave the other options unselected.
   - In the **Recovery state** section, select **Leave the database ready to use by rolling back uncommitted transactions. Additional transaction logs can be restored. (RESTORE WITH RECOVERY)**:



Restore options

☑ Overwrite the existing database (WITH REPLACE)

□ Preserve the replication settings (WITH KEEP_REPLICATION)

□ Prompt before restoring each backup

□ Restrict access to the restored database (WITH RESTRICTED_USER)

Restore the database files as:

Original File Name	File Type	Restore As

Recovery state

● Leave the database ready to use by rolling back uncommitted transactions. Additional transaction logs c restored.(RESTORE WITH RECOVERY)

○ Leave the database non-operational, and do not roll back uncommitted transactions. Additional transacti be restored.(RESTORE WITH NORECOVERY)

○ Leave the database in read-only mode. Undo uncommitted transactions, but save the undo actions in a that recovery effects can be reversed.(RESTORE WITH STANDBY)

Server:
WIN-SRKOSAWEL6T

Connection:
SESTTRAINING\Administrator

9. Click **OK** to perform the restore. the restored database should display with only the changes up to the specified point-in-time.

Figures