

# SQL Express 2005 Configuration Guide



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### How to restore a Database

Managing your databases in SQL Express is a breeze compared with Microsoft's previous MSDE. SQL Express Management Studio, a simplified version for SQL Express allows the backup & restore of databases with relative ease. To restore a database from an existing backup, follow the procedure outlined below.

✓ Open the SQL Express Management Studio





- $\checkmark$  When you are connected, expand the tree for your server.
- ✓ Right click the Database folder and select *Restore Database*

🇏 Microsoft SQL Server Management Studio E	cpress
File Edit View Tools Window Community H	elp
🔝 New Query   🕞   🗃 🗐 🕼 🎒 🤔	
Object Explorer 🗸 🗸 🗙	Summary
🛃 🛃 = 🖻 🝸	🔁 🗟 🪅 🍸  🇱 List 🗸
😑 🚺 SQLEXPRESS (SQL Server 9.0.3068 - KISYS\Admir	
New Database	📙 Databases
🕀 🖡 Attach	SQLEXPRESS\Databases
🕀 🕻 Restore Database	
🛎 🖣 Restore Files and Filegroups	Name
Refresh	System Databases
	CJSTest
	🦲 SandlerTest
Peadu	
Reduy	



- In the **Destination for restore** box, enter the appropriate name for the database: for KI implementations the database typically has a specific name; in this example we use CAB2003 indicating this is a database used for Office 2003
- 📙 Restore Database CAB2003 Select a page 🔄 Script 🔹 🚺 Help 🚰 General 😭 Options Destination for restore Select or type the name of a new or existing database for your restore operation. CAB2003 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 L! Connection Server: SQLEXPRESS Connection:

<

✓ Under Source for Restore; select From Device.

OK

**KISYS** With KISYS With Ministrator

Ready

Progress

View connection properties

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- ✓ Click the *Browse* button to the right of the From Device field
- ✓ Click Add in the *Specify Backup* window

Select a page 🚰 General	Script •	📑 Help
Poptions	Destination f	or restore type the name of a new or existing database for your restore operation.
📼 s	pecify Backup	
Spe	ecify the backup media a	and its location for your restore operation.
Bac	:kup media: :kup location:	File
		Add
		Remove
		Contents
onnection		
Server: SQLEXPRESS		
Connection: KISYS \Administrato		
步 <u>View connectio</u>		OK Cancel Help
rogress		
Ready	<	Ш



- Locate and select the backup file: in this example the backup resides in the default backup location for SQL and is called CAB2003
- ✓ Select the backup file

🕽 Locate Backup	File - SQLEXPRESS	
Select the file:		
	Files non Files Plus Applications net Explorer weak enger soft ActiveSync soft frontpage soft Goffice soft SQL Server 0 0 1SSQL.1 MSSQL Backup CAB2003.bak CUST est.bak Binn CUST est.bak Data Data Data Data Data Maker uild Gaming Zone	
Selected path:	C:\Program Files\Microsoft SQL Serve	er\MSSQL.1\MSS
Files of type:	Backup Files(*.bak;*.tm)	~
File name:	CAB2003.bak	Cancel

✓ Click OK



- ✓ You will now see your chosen backup in **Select the backup sets to restore**
- ✓ Place a check in the check-box next to the backup set

🤘 Restore Database - CAB2	003						
Select a page	🔄 Script 🝷	🚹 Help					
Pptions Options	Destination for restore						
	Select or type the name of a new or existing database for your restore operation.						
	To database: CAB2003			×			
	To a point	: in time:	Most recent	possible			
	Source for rea	store					
	Specify th	e source and local	ion of backup sel	is to restore.			
	O From d	latabase:					
	From d	levice:	C:\Progr	am Files\Micro	soft SQI	_ Server\MSSQL.	1\MSS
	Select the	hackun sets to re	store:				
	Restore	Name		Component	Туре	Server	Database
Passastion		CAB2003-Full Da	atabase Backup	Database	Full	SQLEXPRESS	CAB2003
Server:							
SQLEXPRESS							
Connection: KISYS\Administrator							
View connection properties							
Progress							
Ready							
"Rand"	< ]	.00					>
					C	ок (	Cancel



#### ✓ In the upper left of the main window, click **Options** under Select a page

🥑 Restore Database - CAB20	03				
Select a page	🖾 Script 🔸 🚺 Help				
	Restore options		ŝ		
	Overwrite the existing database				
	Preserve the replic	cation settings			
	Prompt before res	ioring each backup			
	Hestlict access to	the restored database			
	Restore the database	files as:			
	Original File Name		1		
	CAB_DATA_1	licrosoft SQL Server\MSSQL.1\MSSQL\Data\CAB2003.mdf			
	CAB_LOG_1	<pre>/icrosoft SQL Server\MSSQL.1\MSSQL\Data\CAB2003_log.ldf</pre>			
Connection	Recovery state				
Lonnection	📥 Leave the databa	se readv to use by rolling back uncommitted transactions. Additional			
Server: SQLEXPRESS	transaction logs c	annot be restored.(RESTORE WITH RECOVERY)			
Connection: KISYS\Administrator	<ul> <li>Leave the database non-operational, and do not roll back uncommitted transactions. Additional transaction logs can be restored. (RESTORE WITH NORECOVERY)</li> </ul>				
View connection properties	- Leave the database in read only mode. Under uncommitted transactions, but save the under				
Progress	Leave the database in read-only mode. Undo uncommitted transactions, but save the undo actions in a standby file so that recovery effects can be reversed. (RESTORE WITH STANDBY)				
O Ready	Standby file:		][]		
		OK Canc	el		

Verify the correct file names & locations for the database data & log files. This is an important step when the database being restored comes from another server whose data & file locations, as well as the database name is different. 7

Systems, Inc. Microsoft CERTIFIC

✓	Click OK when	ready to	complete the	restore process
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elect a page P General	🖾 Script 🝷 🚺 Help			
Poptions	Destination for restore	of a new or existing database for your restore operatio		
	To database:	CAB2003		
	To a point in time:	Most recent possible		
	Source for restore			
	Specify the source and location of backup sets to restore.			
	Specily the source and	ocation of backup sets to restore.		
Microsoft SQL	Specify the source and Server Management Studio Ex store of database 'CAB2003' complete	ocation of backup sets to restore. press d successfully.		
Microsoft SQL	Specify the source and Server Management Studio Ex store of database 'CAB2003' complete	ocation of backup sets to restore. press d successfully.		
Microsoft SQL The res The res Connection Server: SQLEXPRESS	Specify the source and Server Management Studio Ex store of database 'CAB2003' complete	ocation of backup sets to restore. press d successfully.		
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Microsoft SQL The residence of the resi	Specify the source and Server Management Studio Ex store of database 'CAB2003' complete	ocation of backup sets to restore. press d successfully.		

#### ✓ The database is now restored successfully



The final steps are to set the required permissions on the database and must not be skipped. These permissions are applied to the Domain Users group.

- Expand the tree under the restored database > CAB2003 > Security > Users
- ✓ Right-click *Domain Users*
- ✓ Select Properties





- ✓ Locate db\_owner in Database role membership
- ✓ Place a check in the check-box if not already present

📙 Database User - Domain	Users			
Select a page Providential General	🖾 Script 🝷 🚺 Help			
Securables Extended Properties	User name:	Domain Users		
	(i) Login name.	KISYS\Domain Users		
	O Certificate name:			
	🔘 Key name:			
	🔘 Without login			
	Default schema:			
	Schemas owned by this user			
	Owned Schemas		1	
Connection				
Server: SQLEXPRESS	Database role membership:			
Connection:	Role Members		<u> </u>	
KISYS VAdministrator				
Mew connection properties	db_denydatareader			
Progress	db_denydatawriter		=	
CO Ready	db_owner		*	
		ОК	Cancel	

#### ✓ Click OK

The database is now ready to use.



### How to schedule a recurring backup

SQL Express 2005 provides the ability to manually execute a backup, however it does not include the SQL Agent commonly used for maintenance, jobs and tasks (including backups) on full versions of SQL Server. Without SQL Agent, you may still automate a backup of your database(s) by using the following method:

- ✓ From the zip file you received from KI Systems, locate the folder entitled KI\_Server\_Setup
- ✓ On your SQL Server machine, create the following folder: c:\KI
- ✓ Copy the BackupCAB2007.sql file to the c:\KI folder
- ✓ Double-Click the BackupCAB2007.sql file and open it in SQL Express Management Studio.
- ✓ Replace the two instances of <FULL PATH> with your desired path for the database backup file.

For example Replace: <FULL PATH>\CAB2007.bak With: c:\program files\microsoft sql server\mssql\backup\CAB2007.bak

Save and Close the file.

- ✓ From Start, Programs, Accessories, System Tools, select Scheduled Tasks
- Click Add Scheduled Task
- ✓ The Wizard begins, Click Next
- Click the Browse button, navigate to and select: C:\Program Files\Microsoft SQL Server\90\Tools\binn\ SQLCMD.exe, and click Open
- ✓ Name the Task: CAB2007 Backup
- Select to Perform this task on a Daily basis and click Next
- Enter the time and day you want this task to Start, select to Perform this task: Every Date, and set the Start date ad today. Click Next.
- Enter the user name and password which will run the task. Note: this can either be your Domain\Administrator or the SQL sa. You must enter and confirm the password for the selected login. Click Next.
- ✓ On the final screen of the Scheduled Task Wizard, check the box "Open advanced properties for this task when I click Finish." Then click the Finish button.
- ✓ On the Task Tab of the CAB2007 Backup dialog, edit the Run command to be as follows:

"C:\Program Files\Microsoft SQL Server\90\Tools\Binn\SQLCMD.EXE" -S .\SQL Express -i "C:\KI\BackupCAB2007.sql"

Please note the use of quotes around file paths. Also note the –S and –i parameters are case sensitive. The .\SQL Express is the local machine reference to the Server Name\SQL Express instance. If you have not installed SQL Express as an instance, replace ".\SQL Express" with the Server Name.



-----Text of BackupCAB2007.sql - Provided for Reference------

--Open the script and modify as follows:

--modify script replace <FULL PATH> with the desired backup location

--e.g. c:\program files\microsoft sql server\mssql\backup\cab2007.bak

BACKUP DATABASE [CAB2007] TO DISK = N'<FULL PATH>\CAB2007.bak' WITH NOFORMAT, INIT, NAME = N'CAB2007-Full Database Backup', SKIP, NOREWIND, NOUNLOAD, STATS = 10, CHECKSUM, CONTINUE\_AFTER\_ERROR

GO

declare @backupSetId as int

select @backupSetId = position from msdb..backupset where database\_name=N'CAB2007' and backup\_set\_id=(select max(backup\_set\_id) from msdb..backupset where database\_name=N'CAB2007')

if @backupSetId is null begin raiserror(N'Verify failed. Backup information for database "CAB2007" not found.', 16, 1) end

RESTORE VERIFYONLY FROM DISK = N'<FULL PATH>\CAB2007.bak' WITH FILE = @backupSetId, NOUNLOAD, NOREWIND

GO



## **Contact Information**

Thank you for choosing KI Systems. If you have questions or need assistance with your software, please feel free to contact us:

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