Microsoft SQL Server 2005 How to Create and Restore Database (GRANTH3) Manually

Introduction

To use the **e-Granthalaya** Software for automation of your library, you need to install the database management program i.e. "Microsoft SQL Server". You can use Express Edition of the MS SQL Server which is always free.

Before Creation and Restore of GRANTH3 database make sure that SQL Server must be running in Mixed Mode of Authentication (SQL Server Authentication). While installing the SQL Server in the PC, you must select the Mixed Mode of Authentication. In Win XP you can change the Authentication mode using the properties of the SQL Server but in Win 7 and Server 2008 you can not change the mode later.

[A]. How to Create and Restore GRANTH3 database

 Run Microsoft SQL Server : Go to START >> PROPGRAMS >> MS SQL Server 2005 >>SQL Server Management Studio and Click it as given below:



2. The MS SQL Server management studio will appear .

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- 3. Select the 'SQL Server Authentication" from drop-down and type login 'sa' and its password. In case you have installed the SQL Server from e-Granthalaya Auto setup then password is given in the 'Password.txt' file in eG3 Software CD. In Windows XP you can connect SQL Server using 'Windows Authentication' where password is not required.
- 4. Press "Connect" button



5. After connecting your SQL Server , you can create a new database here by right clicking the "Databases" object and select "New Database…"

Microsoft SQL Server Management Studio Express
File Edit View Tools Window Community Help
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2 🔄 Sei Attach 7 Item(s)
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Restore Files and Filegroups
Refresh
Ready
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6. A new window will appear as given below, type the name of the database (GRANTH3) or something else and press OK button to create a new blank database

🚪 New Database						
Select a page	🔄 Script 👻 📑 H	elp				
General Dotions Filegroups	Database name: Owner: Use full-text in Database files:	idexing	ERANTH3 <default></default>			
	Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth	Path
	GRANTH3	Data	PRIMARY	2	By 1 MB, unrestricted growth	C:\Program F
	GRANTH3_log	Log	Not Applicable	1	By 10 percent, unrestricted growth	C:\Program F
Connection Server: GRANTH17\SQLEXPRESS Connection: NIC\nic3745 View connection properties Progress					Press OK after Typing the Name of Database – GRANTH3	
C Ready						Remove
	Hamita Granta	C Libuanu	1	Minutes Strategy Science		Cancel

It will create the New Database GRANTH3 as shown in the following screen. In case database with the same name already exists then you can create with different name.



 Here you will restore the newly created database with the database backup file from Hard disk/Cd, etc. Right click your newly created database (GRANTH3) > Task>>Restore>>Database,



8. After clicking the above option, following screen will appear

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Select a page	🔄 Script 👻 📑 Help		
General Options	Destination for restore		
	Select or type the name of a ne	ew or existing database for your restore ope	ration.
	To database:	GRANTH3	•
	To a point in time:	Most recent possible	
	Source for restore		
	Specify the source and location	n of backup sets to restore.	
	C From database:	GRANTH3	<u>_</u>
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Connection Server: GRANTH17\SQLEXPRESS	Restore	Select Type Si	Ducas
Connection: NIC\nic3745		From	Press *
View connection properties		Device'	button to /
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Ready			backup file
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			OK Cancel
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9. Select the "From Device" option from the above screen and pres ... (three dot button given in the right side of the screen against above selection, after pressing ... dot button following screen will appear

🥛 Restore Database - GRA	NTH2			_ 8 ×
Select a page	🔄 式 Script 👻 📑 Help			
iangeneral Iangeneral	Destination for restore			
	Select or type the na	ame of a new or existing database for your restore oper	ation.	
	📟 Specify Backup		×	-
	Specify the backup media a	and its location for your restore operation.		
	Backup media:	File		
	Backup location:			
			Add	
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Connection			LSN Checkpoint L	SN Fi
Server: NIC-MIAZGYDL9XU\SQLEXP				
Connection: NIC\nic3745				
View connection propertie		OK Cancel	Help	
Progress			111	
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10. Press ADD button, following screen will appear



11. In the bottom part of the above screen , select the "All Files(*.*)" from the "Files of Type" and then select the backup file you just copies to "C:\Library" folder in the Step no.2 (browse the folders on your computer drives"



12. After selecting the backup file from the copied location, press OK button

🥛 Restore Database - GRAM	NTH3			
Select a page	🔄 🛒 Script 👻 📑 Help			
General Poptions	Destination for restore			
	Select or type the name of	of a new or existing database for your restore or	eration	
	Specify Backup		<u> </u>	•
	Specify the backup media and it	s location for your restore operation.		
	Backup media:	File	1 –	
	Backup location:			
	C:\Library\GRANTH3.bak		Add	
			Bemove	_
			Contents	
Connection				Database Positi
Server: GRANTH17\SQLEXPRESS				
Connection: NIC\nic3745				
View connection propertie		OK Cancel		
Progress			」///	
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13. Press OK again u will see the following screen

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Select a page	🖳 Script 👻 🚺 Help
General Crtions	Destination for restore
	To database:
	To a point in time: Most recent possible
	Source for restore
Click	Specify the source and location of backup sets to restore.
OPTION	O From database: GRANTH3
	From device: C:\Library\GRANTH3.bak
	Select the backup sets to restore:
Conr	Restore Name Component Type Server Database Position First LSN
Server: GRANTH17\SQLEXPRESS	IV GHANTH3-Full Database Backup Database Full GHANTH90 GHANTH3 1 653000000
Connection: NIC\nic3745	
View connection properties	Put the
	Check
Progress	Box here
C Ready	DOX HEIC
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	OK Cancel
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14. Check the Check box given in the above screen and press the OPTION tab given in the upper Left part of the above screen

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Select a page	🖾 Script 🝷 🖺 Help			
Poptions				Salast Option
	Hestore options			Select Option
	Overwrite the existing database (WITH REPLACE)			To view
	Preserve the replication settings (WITH KEEP_REPLIC)			
	Prompt before restoring each backup	This window		
		ICTED_OSEN)		This whiteow
	Driginal File Name	File Tune	Bestore As	
	C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQ.	Rows Data	C:\Program Files\Mic	prosoft SQL Server\MSSQL.1\MSSQ
	C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQ.	Log	C:\Program Files\Mic	rrosoft SQL Server\MSSQL.1\MSSQ
Connection	Recovery state C Leave the database ready to use by rolling back uncom	mitted transactions. Additional trans-	action logs cannot be rest	
Server:				,
GRANTH17\SQLEXPRESS	 Leave the database in read-only mode. Undo uncommit 	ed transactions, but save the undo	actions in a standby file so	o that recovery effects can be
Connection: NIC\nic3745	reversed.(RESTORE WITH STANDBY)			.,
View connection properties	Standby file:			
Progress				
Ready				
				OK Cancel
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<u>NOTE</u>: Here you may need to change the <u>Path of the Database</u> in case it gives error. The Path may be browse by clicking the ... button in the right side of the above screen.

15. Check the check box against the option "Overwrite the existing database..." from the above screen and press OK

🥫 Restore Database - GRAN	TH3 📃 🗖 🔀
Select a page	Script - 🖪 Help
General Diptions	Script Heip Restore options Overwrite the existing database (WITH REPLACE) Preserve the replication settings (WITH REPLACE) Preserve the replication settings (WITH REPLACE) Preserve the replication settings (WITH REPLACE) Restore the database files as: Original File Name File Type Restore As Original File Name C-VProgram Files/Microsoft SQL Server/MSSQL 1/MSSQ C-VProgram Files/Microsoft SQL Server/MSSQL 1/MSSQ Rescovery state Recovery state Leave the database ready to use by rolling back uncommitted transactions. Additional transaction logs cannot be restored (RESTORE WITH RECOVERY)
Connection	O Leave the database non-operational, and do not roll back uncommitted transactions. Additional transaction logs can be restored.(RESTORE WITH NORECOVERY)
Server: granth90	
Connection: NIC\nic3745	C 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)
View connection properties	Standby file:
Progress	
C Ready	
	OK Cancel
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16. It will start the restoring the database, after successful restore it will give the message as seen in the above screen, then Press OK.

[A]. How to Create new Database User/Login for GRANTH3 database

After successful restore of the GRANTH3 database, you need to create a new Login with SQL Password, steps are given below:

1. Right Click the 'SECURITY' object from SQL Server 2005 and select New Login as given in the following screen



2. on click the New Login, new window will appear

📕 Login - New		
Select a page	🔄 Script 👻 📑 Help	
Itemeral Server Roles Item Mapping Item Securables Item Status	Login name: C Windows authentication C SQL Server authentication	granth3 Search
	Password:	•••••
	Confirm password:	•••••
Connection	Enforce password policy Enforce password expiration User must change password Mapped to certificate Cettificate name:	at next login
Server	 Managed to psymmetric key. 	
GRANTH17\SQLEXPRESS Connection: NIC\pic3745	Key name:	
View connection properties	Default database:	GRANTH3
	Default language:	<default></default>
Progress		
		OK Cancel
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- 3. in the above screen, type the name of the login (granth3), choose SQL Server Authentication and type and re-type the password (granth3) and select the database (GRANTH3) for which you are creating the user. However, you may give any user and password which must be noted down for future use). Login Name and Password are case sensitive
- 4. Then click the "Server Role" object from the Left side of the screen and check all the check boxes as given in the below screen

🧮 Login - New		<u>- 0 ×</u>
Select a page	Script - 🖪 Help	
🚰 General		
Server Roles	Server role is used to grant server-wide security privileges to a user.	
Securables		
Status		
- Status	Server roles:	
	U bulkadmin	
	✓ securityadmin	
	Serveradmin	
Connection		
Server: GRANTH17\SQLEXPRESS		
Connection: NIC\nic3745		
View connection properties		
Progress		
C Ready		
	OK Car	
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5. Then click the "User Mapping" object from the left side of the screen and select your database (GRANTH3) from the right side and check the first six check boxes as given in the below screen

🚪 Login Properties - granth3					×			
Select a page	🔄 Script 🦂	- 📑 Help						
General								
Server Holes	Users mapped to this login:							
	Мар	Database	User	Default Schema				
🚰 Status		GRANTH3	granth3	dbo	1			
		GRANTH3_SECTT_BANG						
		master						
		model						
		msdb						
		NEWSNIC3_RKM						
		tempdb						
	1							
	🗖 Guest	account enabled for: GRANTH3						
Connection	Database	role membership for: GRANTH3						
Server:	🔽 db ae	ccessadmin			-			
GRANTHTASQLEXPRESS	db_ba	ackupoperator						
Connection:	db_da	atareader						
NIC VIIC 3743		atawriter dladmin						
View connection properties	db_de	enydatareader						
	db_de	enydatawriter						
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6. The press the Ok

NOTE: now re-boot the system again. Now your database is fully prepared for use with e-Granthalaya software

<u>NOTE</u>: You must always note down the following information for setting up database connectivity with eG3: Database Server Name, Database Name, Login and Password. These information can be taken from SQL Server 2005