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## **DOCUMENT GUIDE**

**for**

**Process for Creating, Restoring & taking Backup  
of Staarship Beacon databases**

**in**

**MS SQL Server 2008**

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# **1 Introduction**

## **1.1 Purpose**

The purpose of this document is to explain the process for Creating, Restoring & taking Backup of databases in MS SQL Server 2008.

## **1.2 Scope**

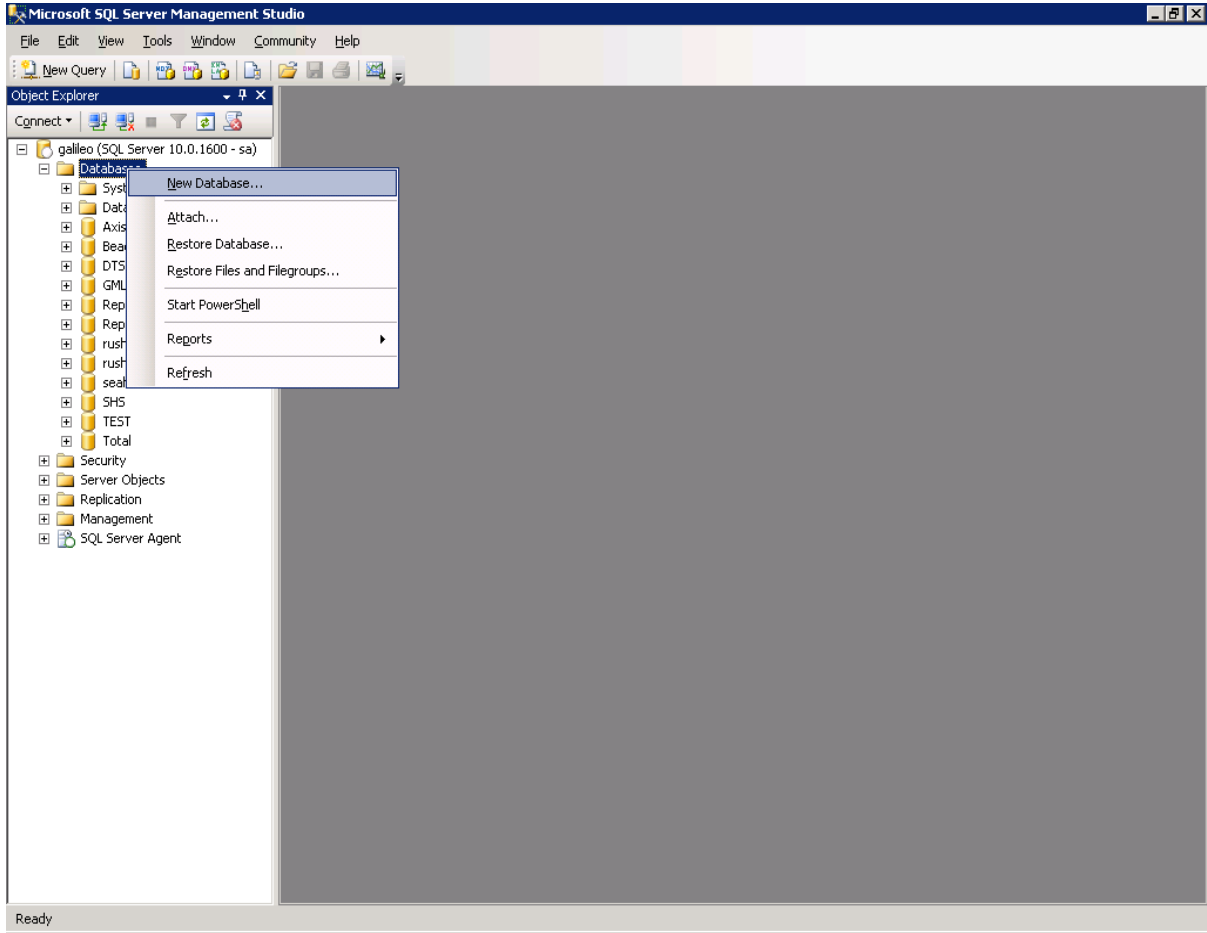
The scope of this document is to guide the System Administrator in creating, restoring & taking backup of the Staarship Beacon database in MS SQL Server 2008.

The database names and the paths mentioned in this document are examples specified to explain the database creation, restoration and backup processes in detail. You must choose the appropriate database as per your database specifications and proceed as per the steps indicated herein below.

## 2 Details

### 2.1 Process for Creation of Database

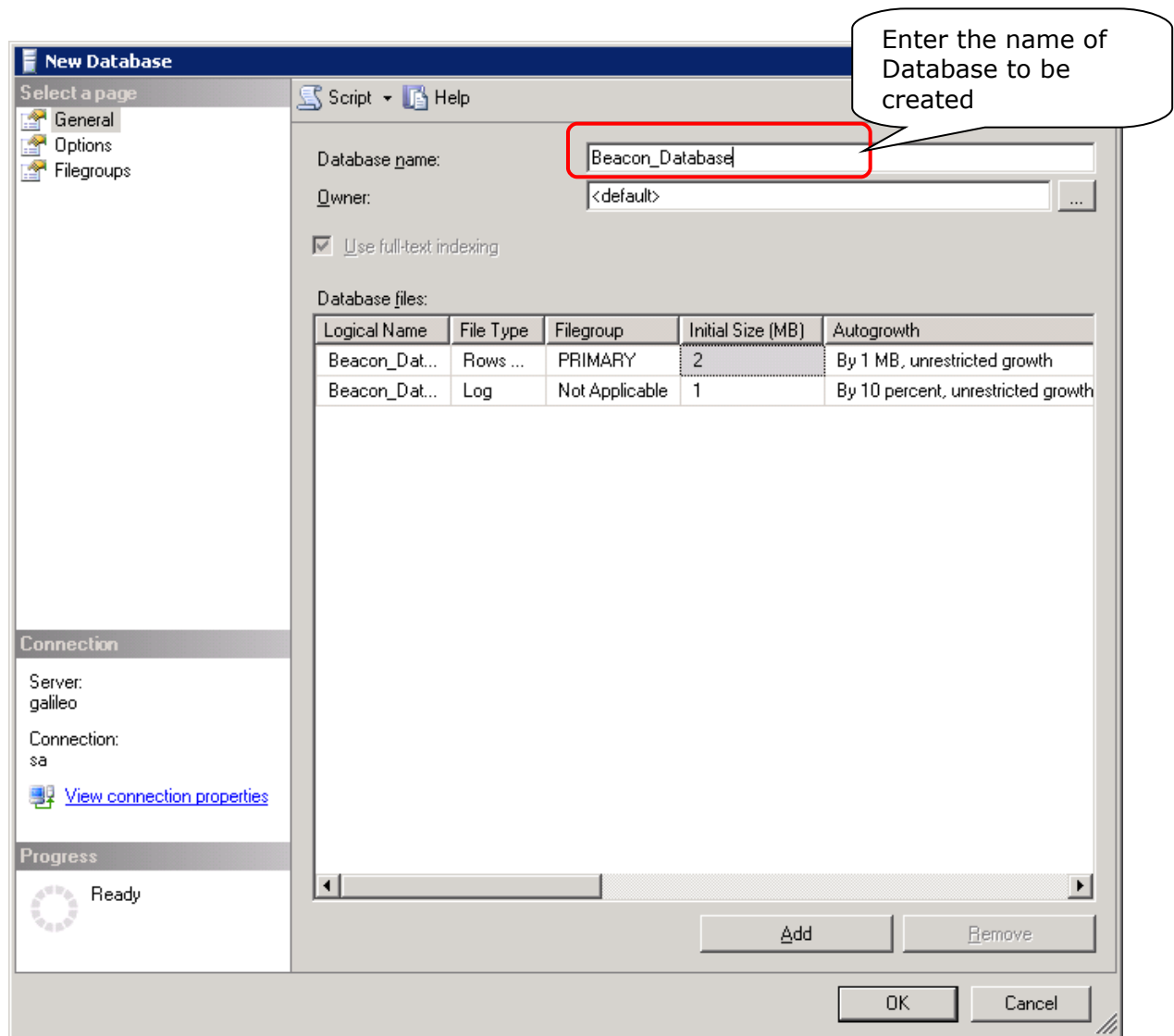
- ❖ Create a New Folder in any drive of the Server Machine for creation of a new database.
- ❖ Open the SQL Server Management Studio and connect to the Server where the Starship Beacon database is to be created.



**Fig. 1**

- ❖ Right click on **Databases** and select **New Database** (as shown in Fig. 1).

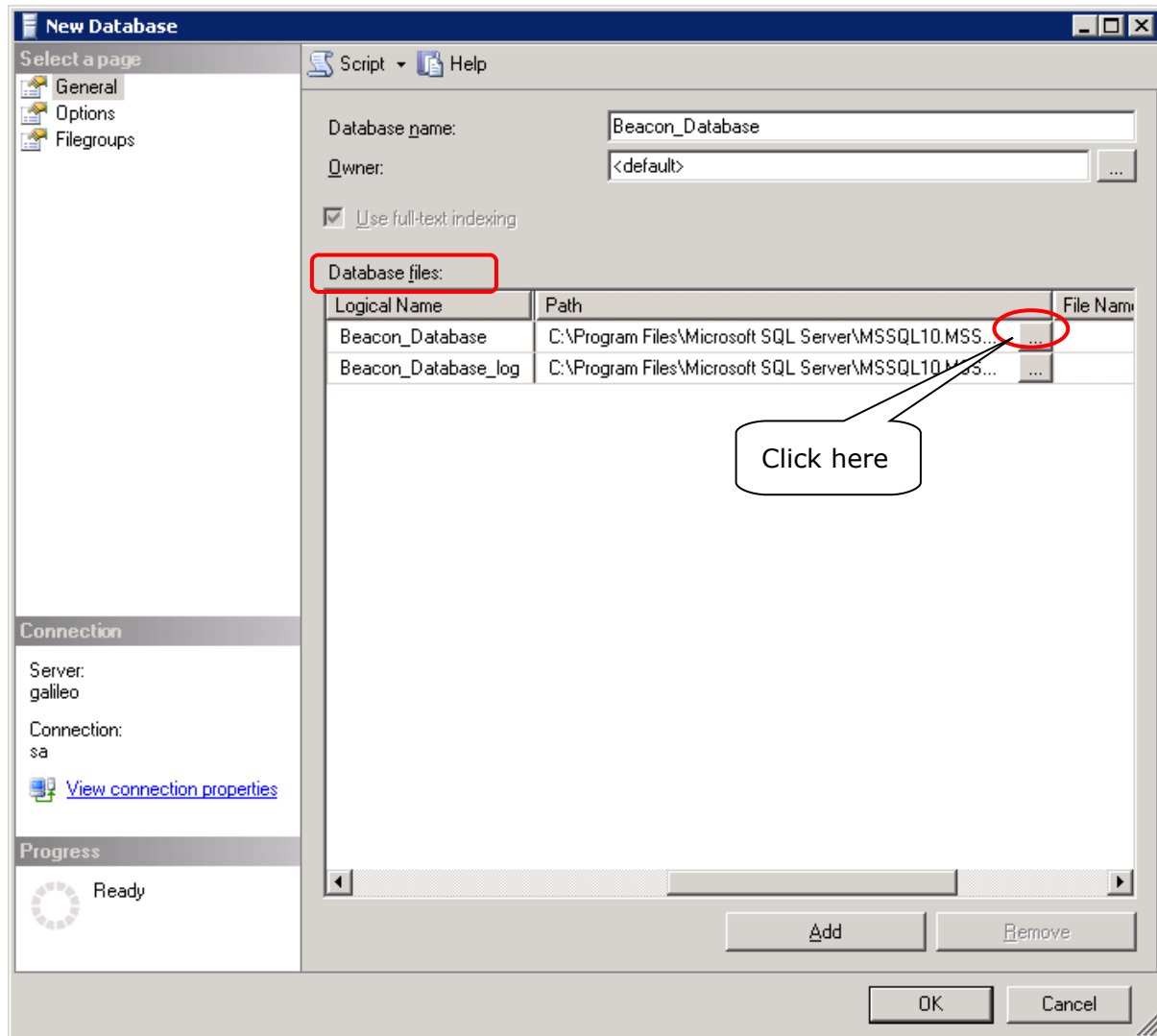
- ❖ The **New Database** dialog box will be displayed (as shown in Fig. 2).



**Fig. 2**

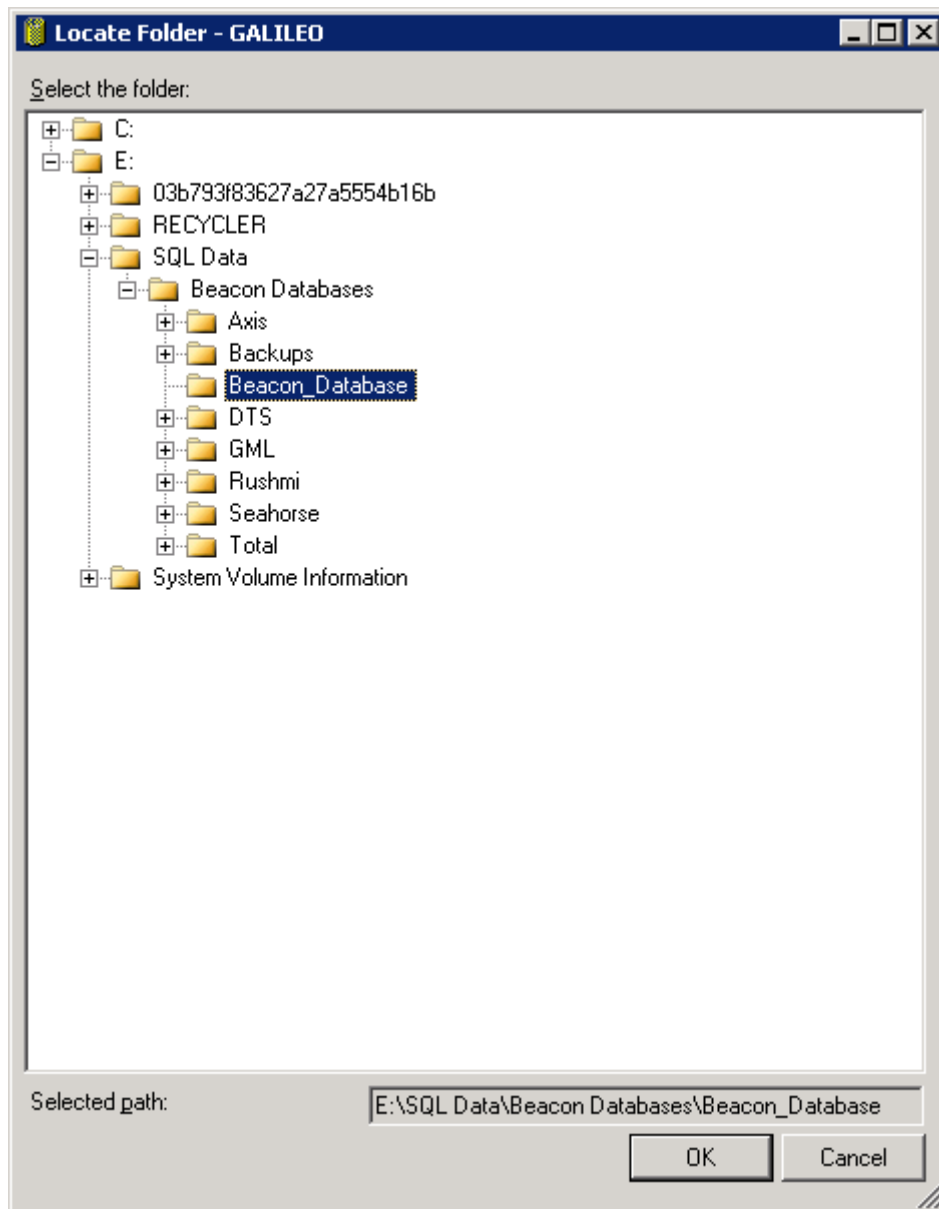
- ❖ Provide a name for the Database in the **Database Name** text box as indicated above in Fig. 2. (For eg. In Fig. 2, the Database name is given as **Beacon\_Database**).

- ❖ Now, scroll the **Database files** details to the Right side and click on the location as indicated below to set the location of the **Data Files** (as shown in Fig. 3).



**Fig. 3**

- ❖ The **Locate Folder** dialog box will be displayed (as shown in Fig. 4).



**Fig. 4**

- ❖ Select the location of the folder, which was created earlier.
- ❖ Click on OK (For e.g. in this case MDF file of Beacon\_database is stored in the path E:\SQL Data\Beacon Databases\Beacon\_Database).

- ❖ Now, scroll the **Database files** details to the Right side and click on the location as indicated below to set the location of the **Transaction Log Files** (as shown in Fig. 5).

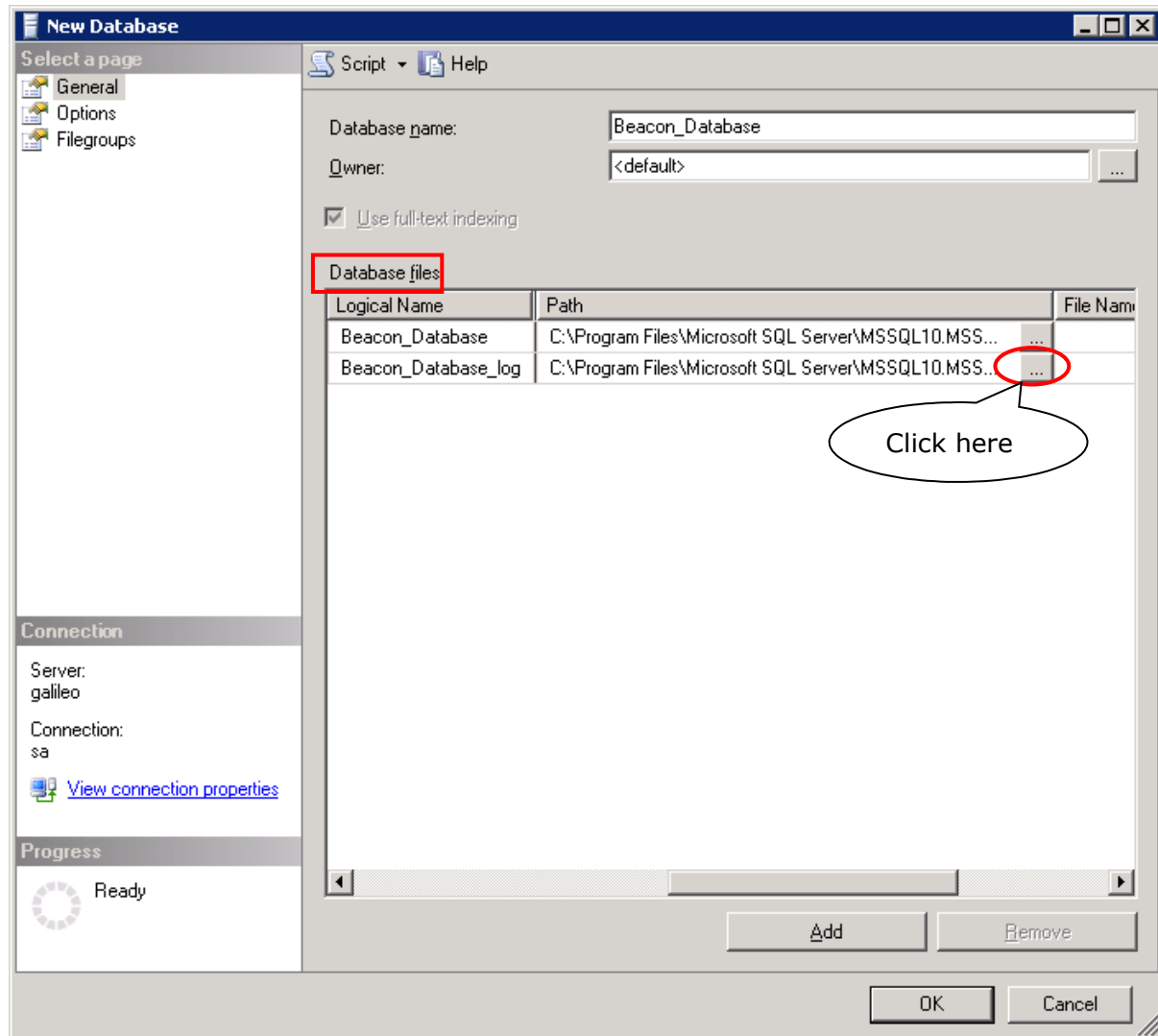
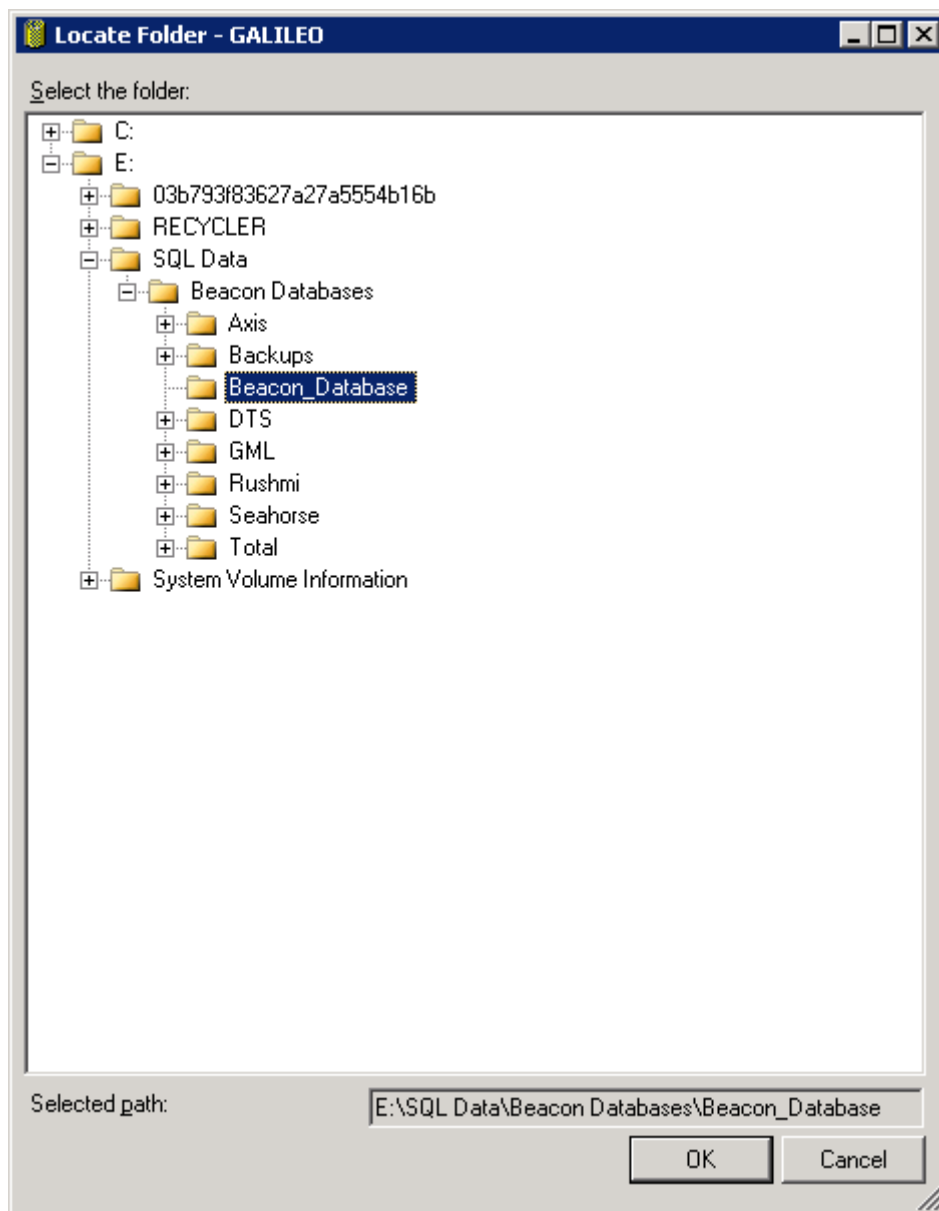


Fig. 5



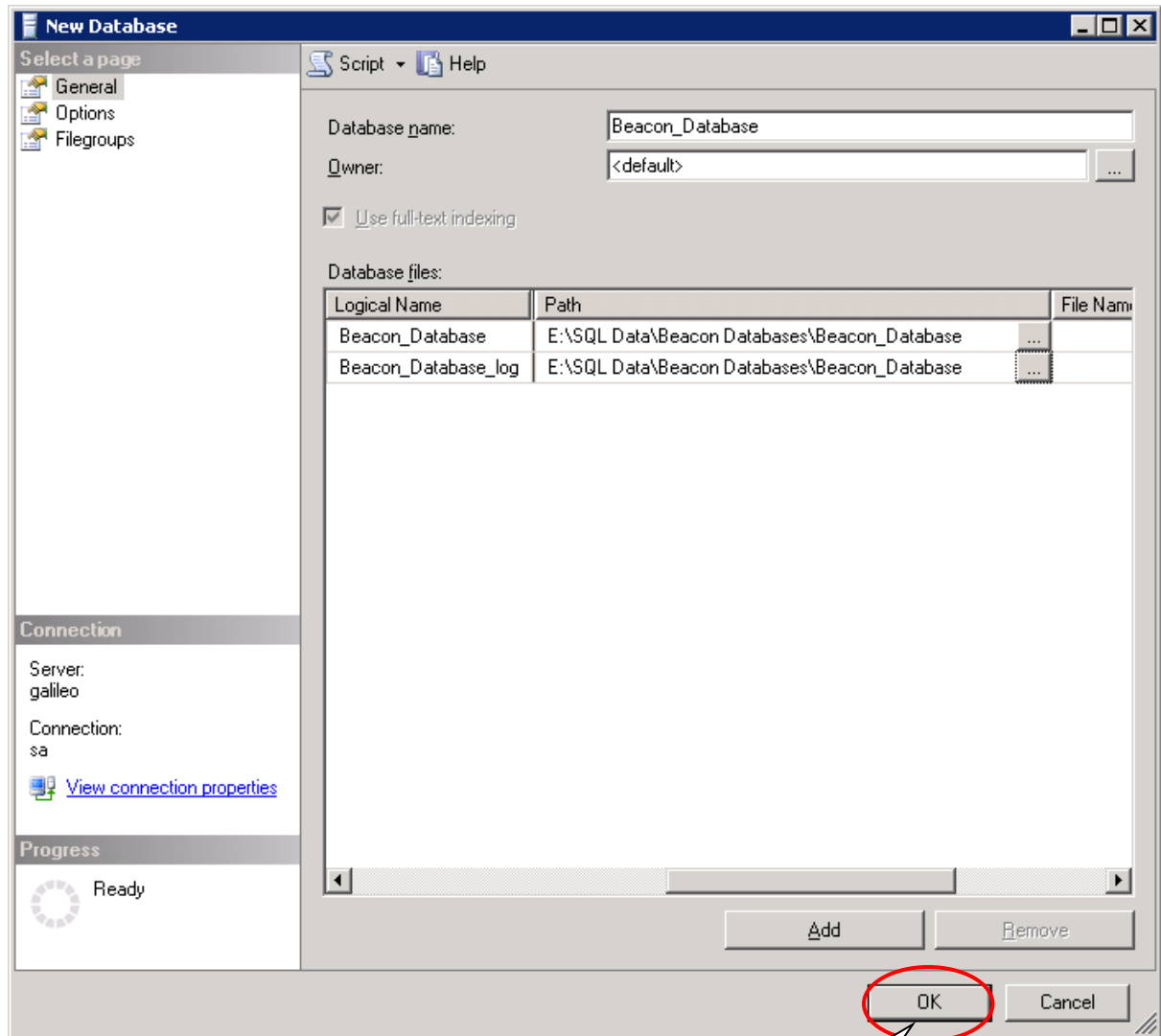
- ❖ The **Locate Folder** dialog box will be displayed (as shown in Fig. 6).



**Fig. 6**

- ❖ Select the location of the folder, which was created earlier.
- ❖ Click on **OK** (For eg. in this case the LDF file of Beacon\_database is stored in the path E:\SQL Data\Beacon Databases\Beacon\_Database).

- ❖ Now, click on **OK** (as shown in Fig. 7) to complete the Database Creation Process for MS SQL Server 2008.



**Fig. 7**

Congratulations!!!  
Your New Database  
has been created!!!

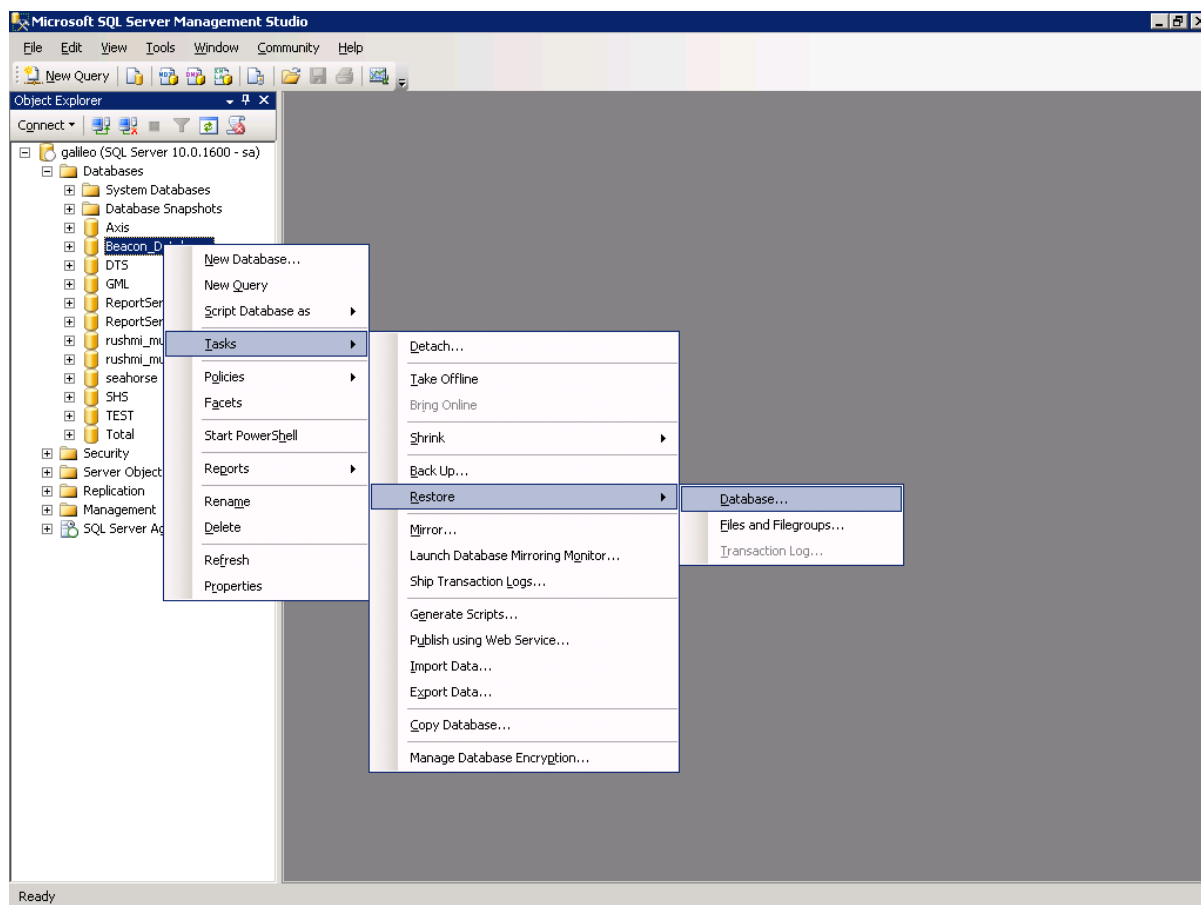
## 2.2 Process for Restoring a Database backup

### 2.2.1 Important Points to be considered before restoring a Database backup.

- The Backup file of the Starship Beacon database must be kept on the same Server, where the database is to be restored.
- All the Users must be disconnected from the database.

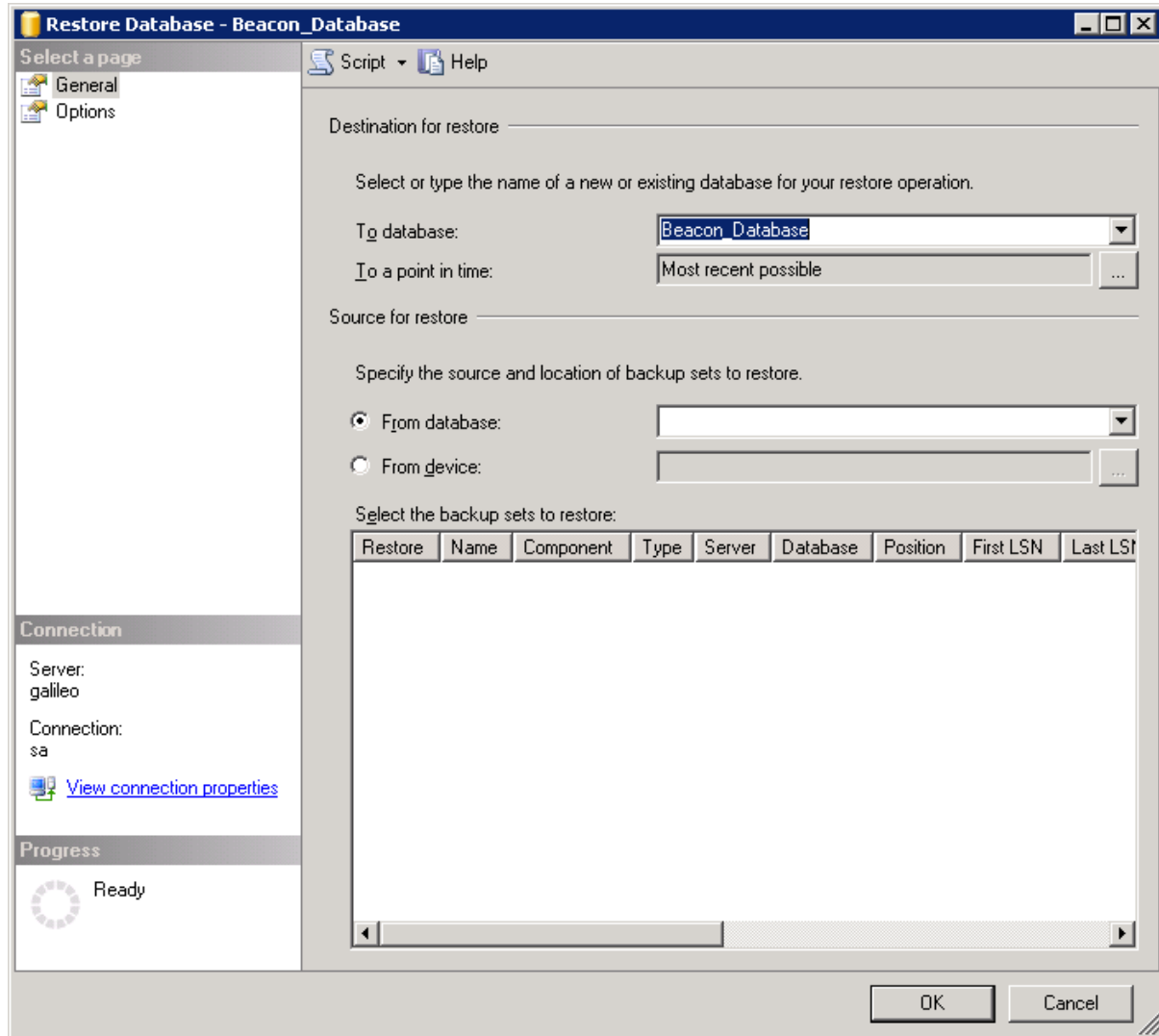
### 2.3.2 Steps for Restoring a Database

- ❖ Open the SQL Server Management Studio and connect to the Server, where the Starship Beacon database backup is to be restored.
- ❖ Right click on the Database and select **All Tasks**.
- ❖ Select **Restore**.
- ❖ Select the **Database...** (As shown in Fig. 8)



**Fig. 8**

- ❖ The **Restore Database** dialog box will be displayed (as shown in Fig. 9).



**Fig. 9**

- ❖ Select the **From Device** option and then click the Select **Button**. (Refer Fig. 10)

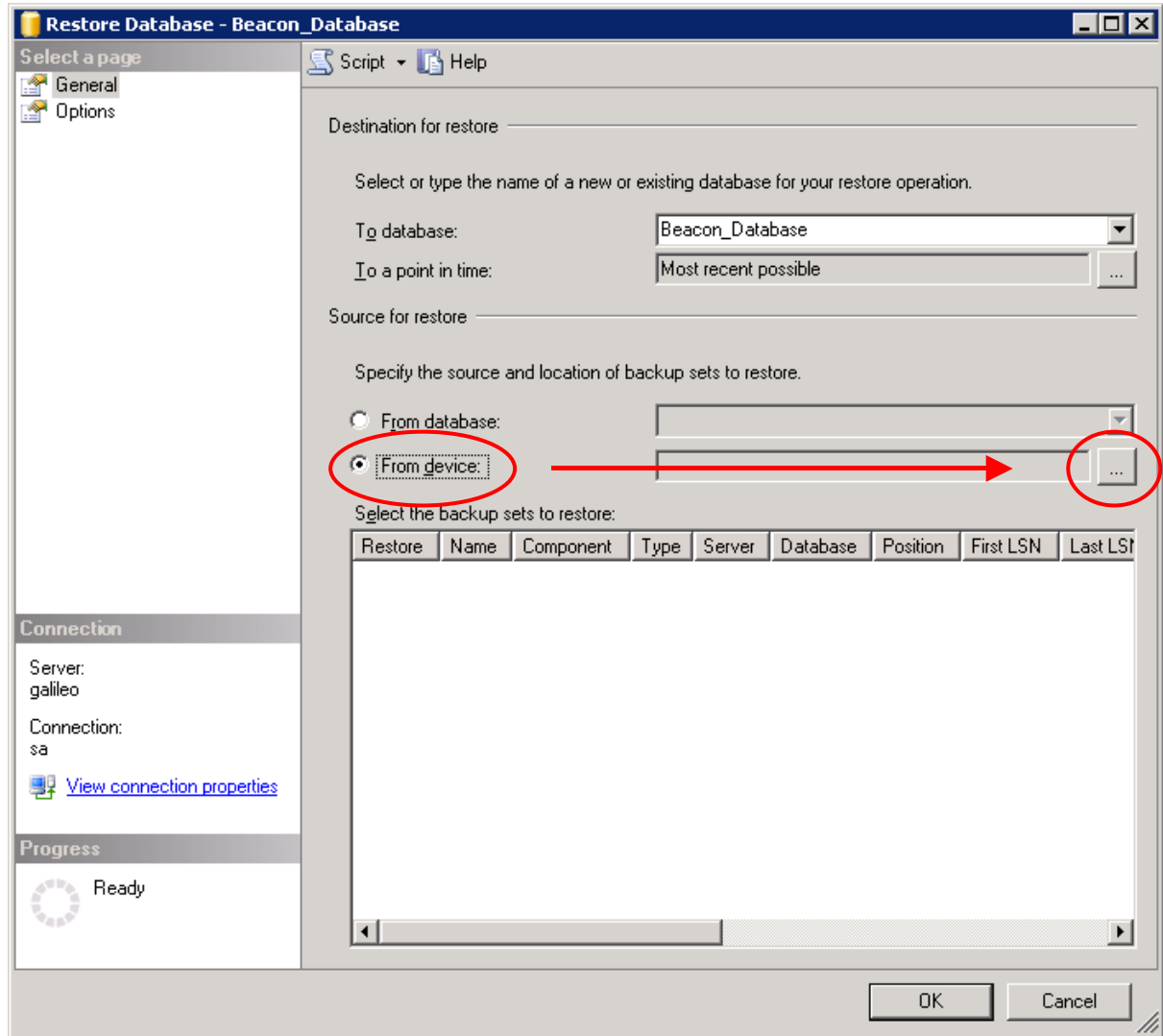
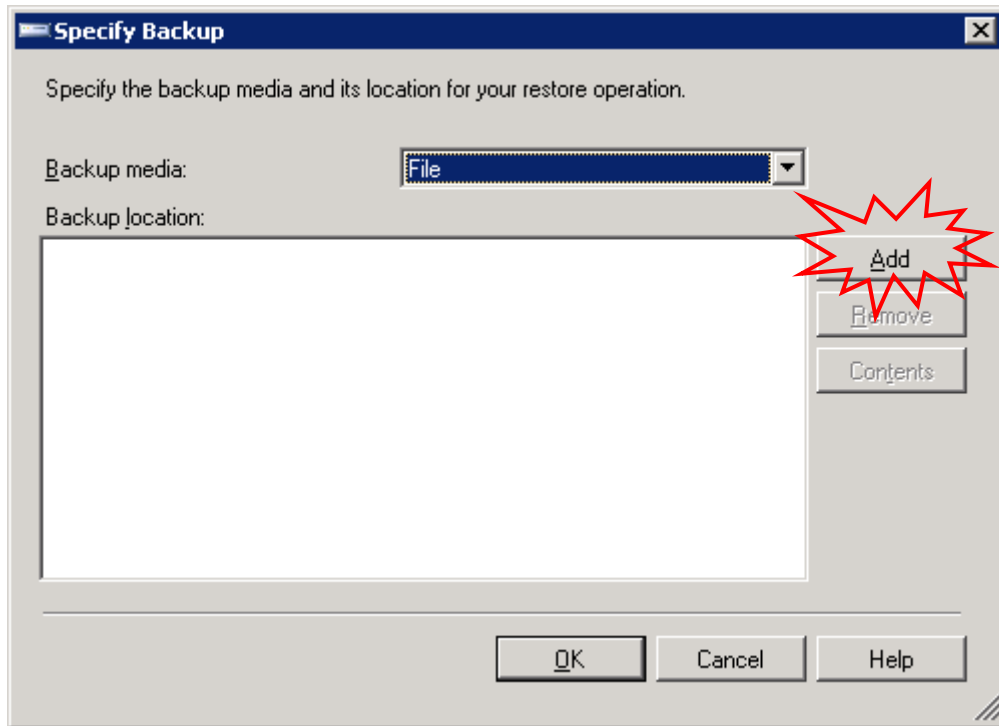


Fig. 10

- ❖ The **Specify Backup** dialog box is displayed (as shown in Fig. 11).

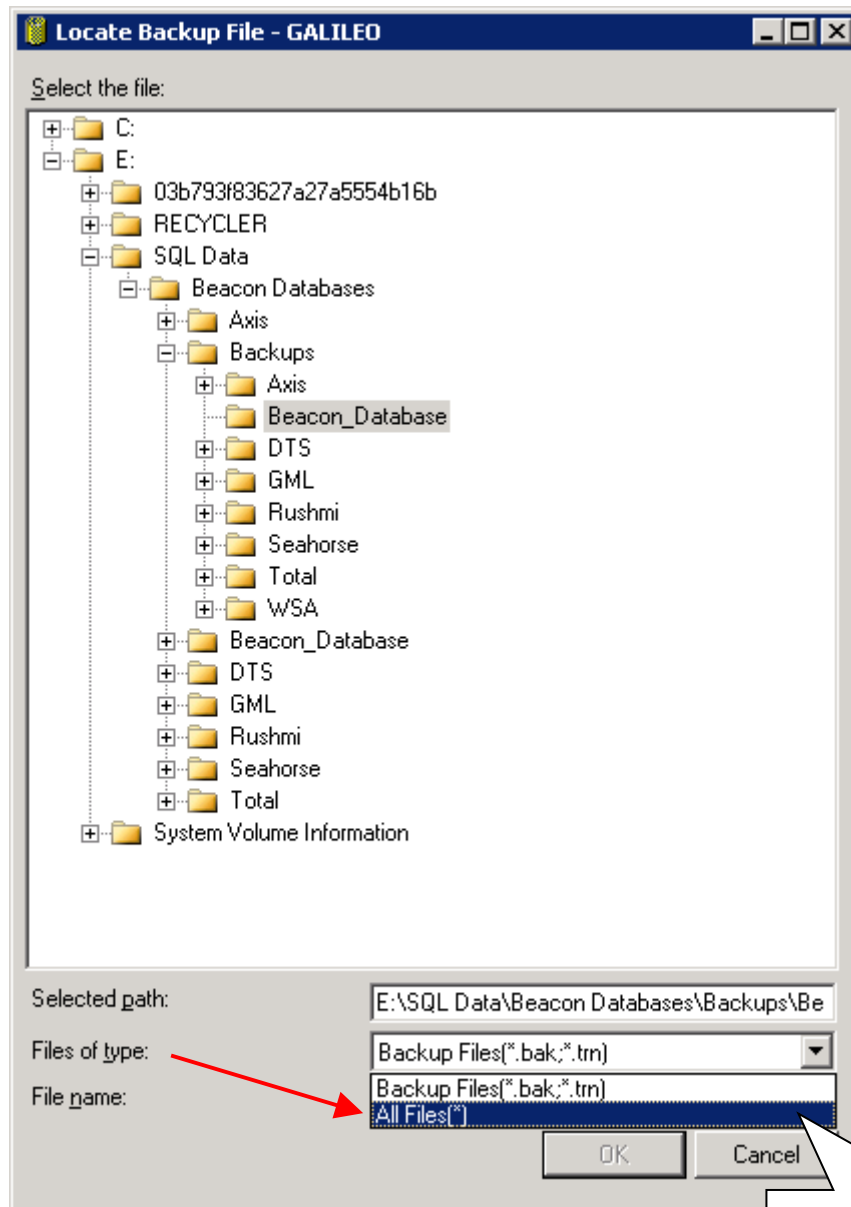


**Fig. 11**

- ❖ In the **Specify Backup** dialog box, click on **Add** to add the backup file that is to be restored.

- ❖ After clicking on **Add**, the **Locate Backup File** dialog box will be displayed (as shown

in Fig. 12).



**Fig. 12**

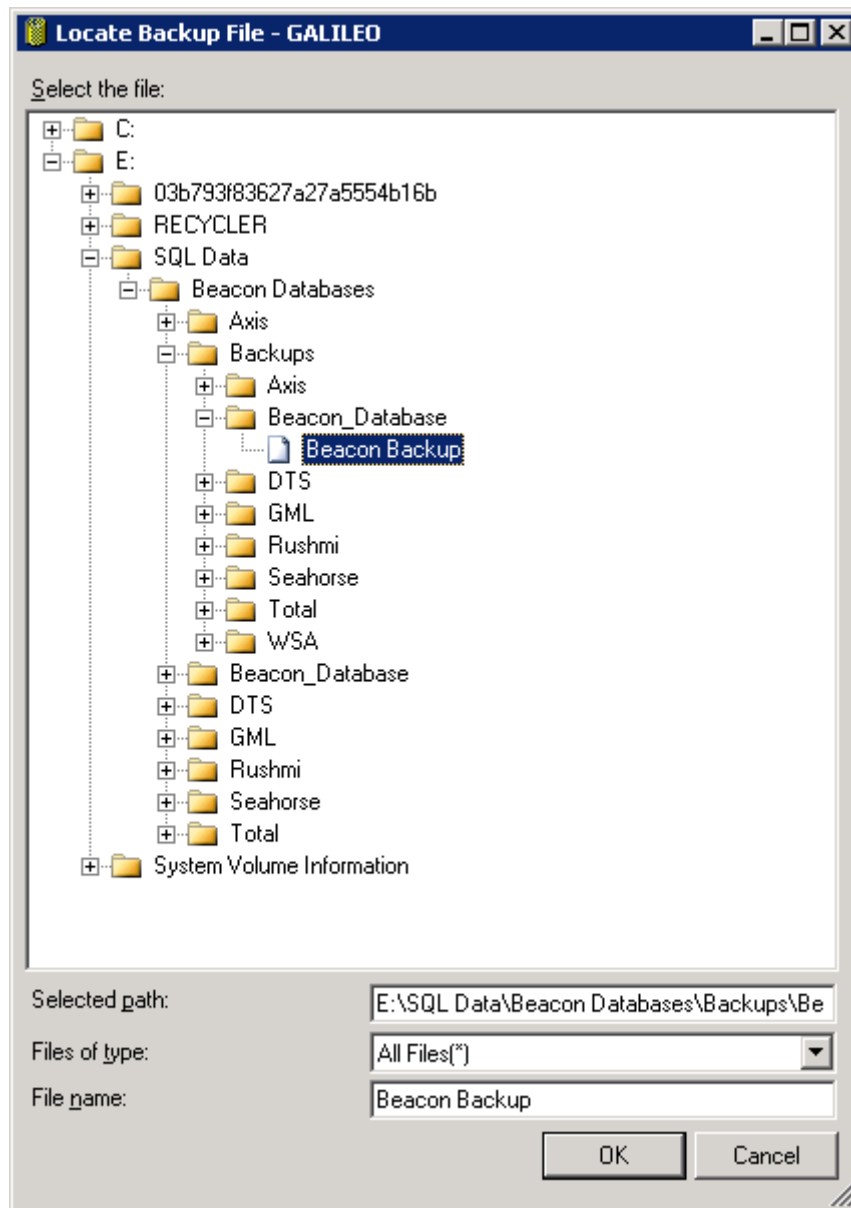
- ❖ Select Option as **All Files (\*)** [Refer Fig. 12].

Selection of "All Files[\*]" option is very important. Else your backup file will not appear in this dialog Box.

- ❖ Now, in the **Locate Backup File** dialog box, select the Backup file from the proper

location. (For e.g. in Fig. 13, the Backup file **Beacon Backup** is selected).

- ❖ If the Backup is taken in multiple files, then all the files need to be selected one after another.

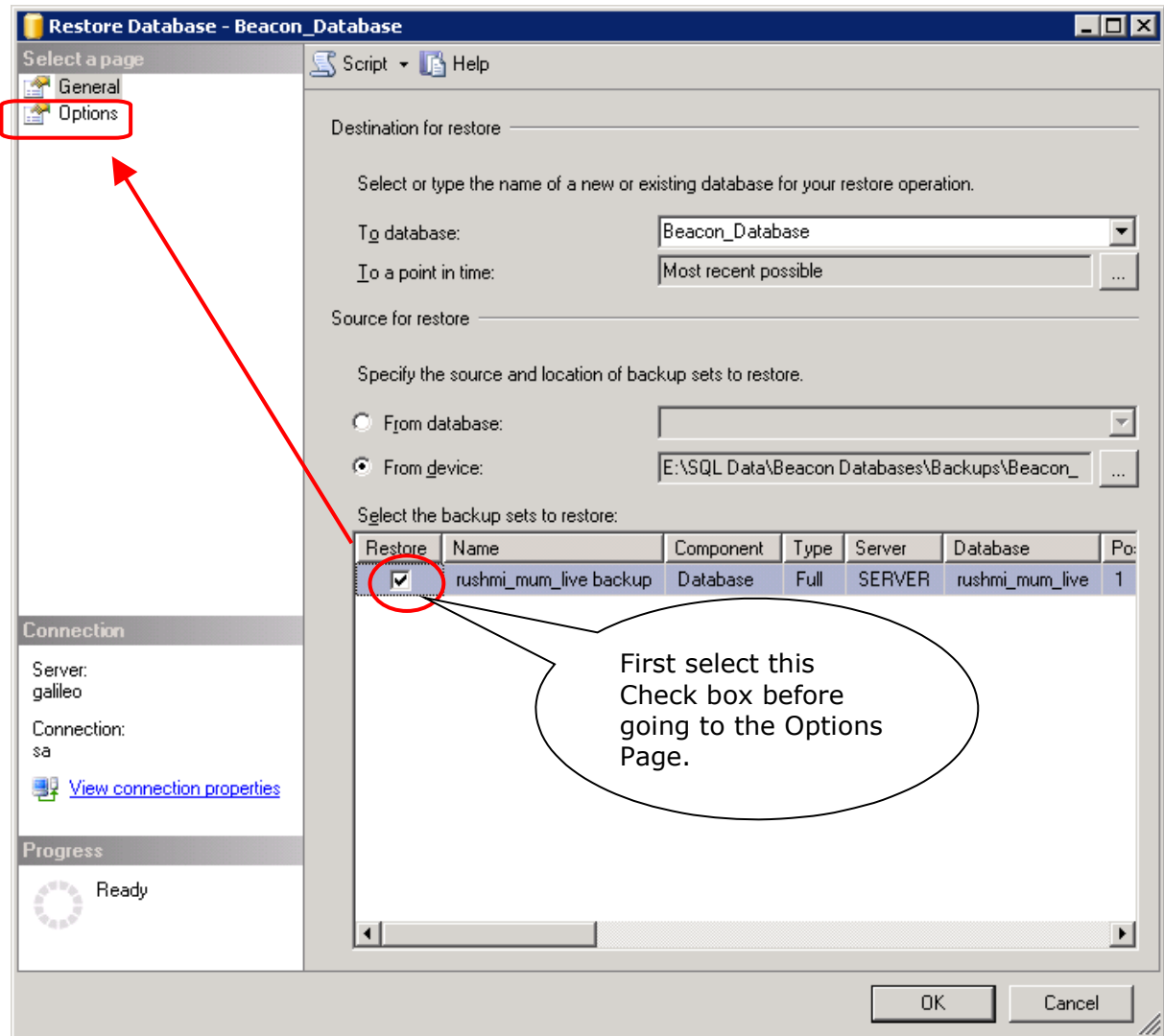


**Fig. 13**

- ❖ After that click on **OK** button in the **Locate Backup File** dialog box.
- ❖ Now, the **Specify Backup** dialog box will appear.
- ❖ Click the **OK** button in this dialog box also.



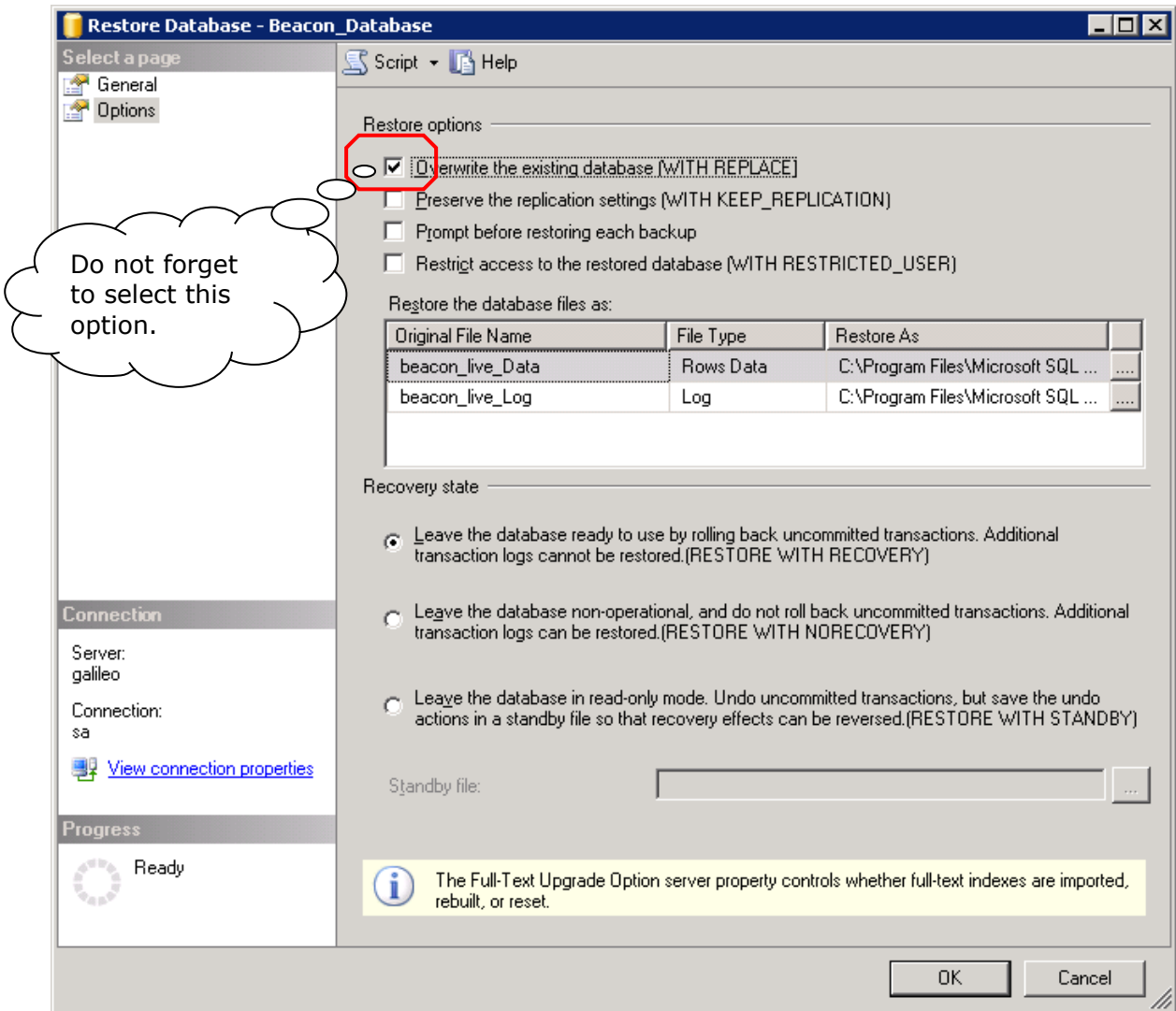
- ❖ The **Restore Database** dialog box will be displayed (as shown in Fig. 14).
- ❖ In this dialog box, select the **Check Box** under Restore Option (Refer Fig. 14). If multiple files are selected, then select the ALL check box for each file.



**Fig. 14**

- ❖ Now, select **Options** displayed in the **Select a page** window on the left hand side of the screen (Please refer Fig. 14).

- ❖ The Option page of the **Restore Database** dialog box will be displayed (Refer Fig. 15).



**Fig. 15**

- ❖ Now, select the **Overwrite the existing database [WITH REPLACE] option** (As shown above in Fig. 15).

- ❖ The path specified under the Physical file name must be the Actual path of the database.
- ❖ To specify the Path of the **Data File (MDF File)**, select the box (As shown in Fig. 16).

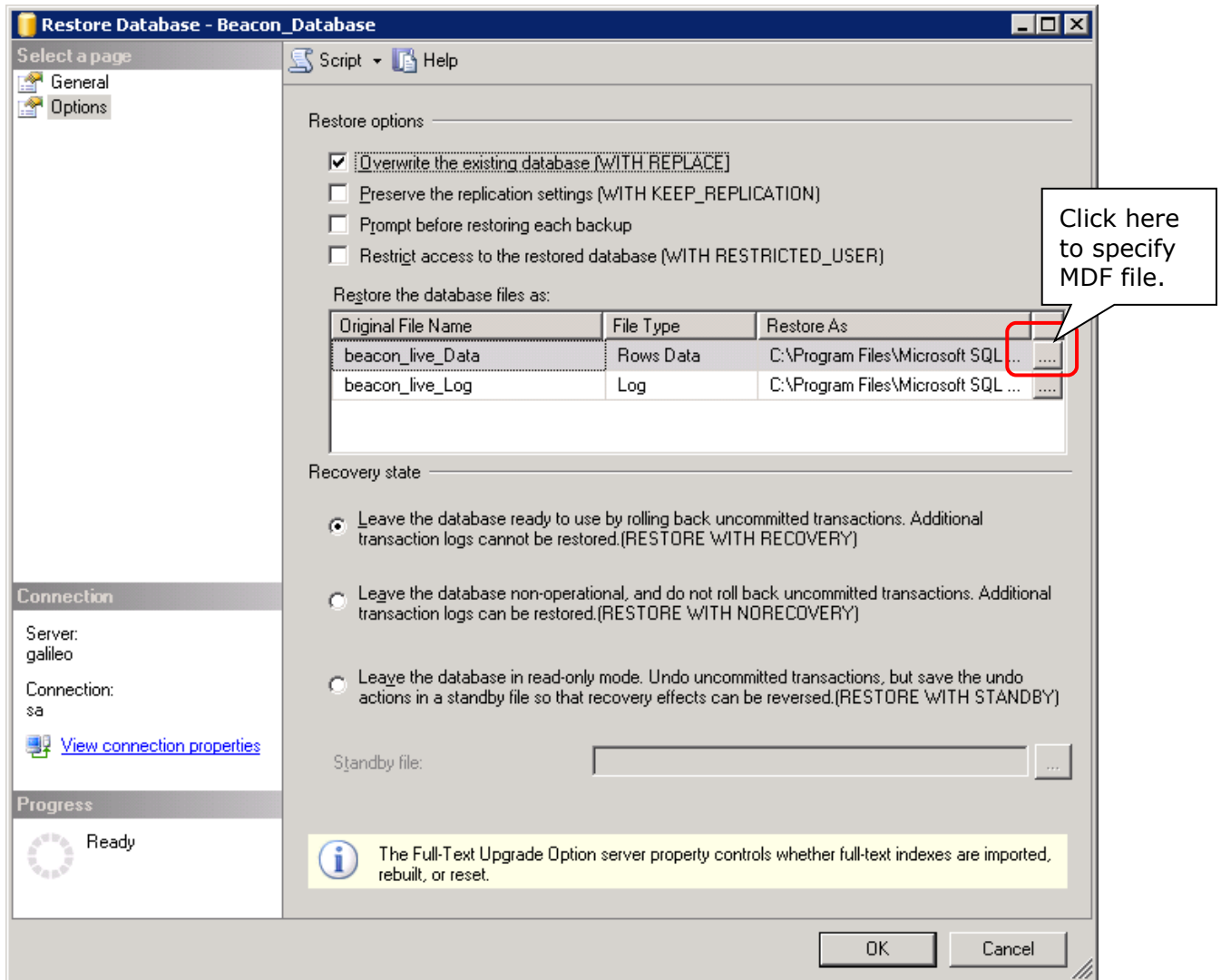
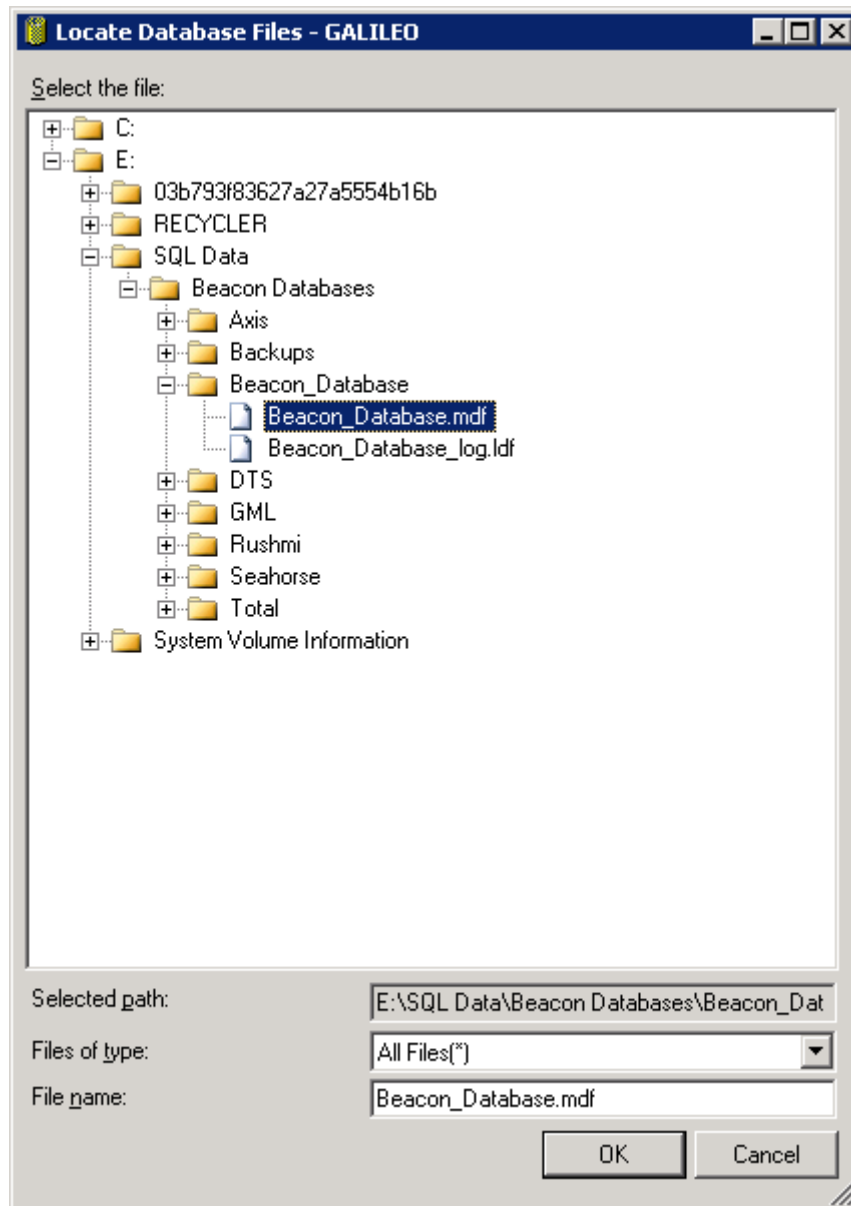


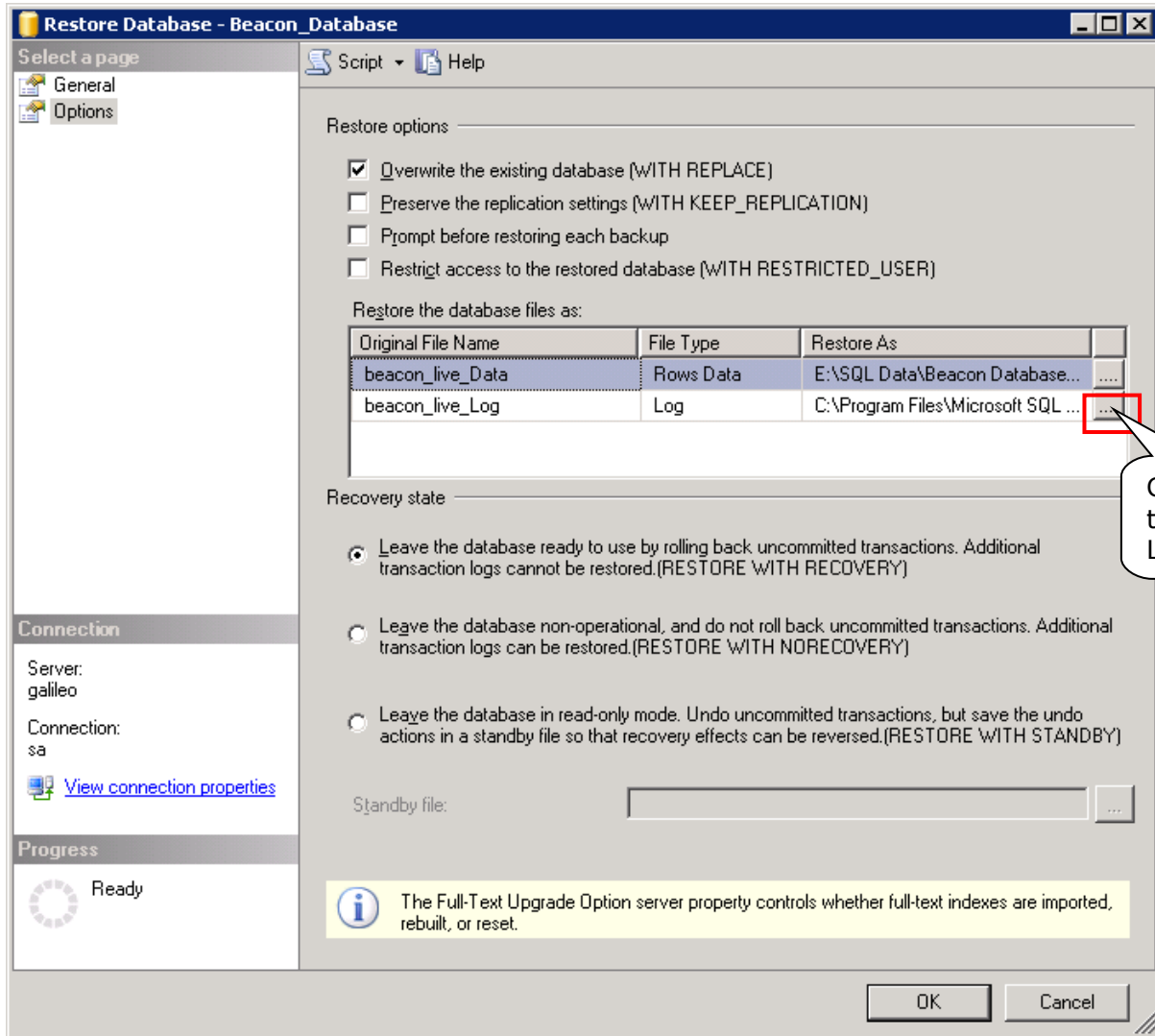
Fig. 16

- ❖ The **Locate Database Files** dialog box will be displayed.
- ❖ In this window, select the proper MDF file from the location where the Database is created (For e.g. in Fig. 17, the **Beacon\_Database.mdf** file is selected since the database [Beacon\_Database] was created in that location).
- ❖ Now, click the OK button.



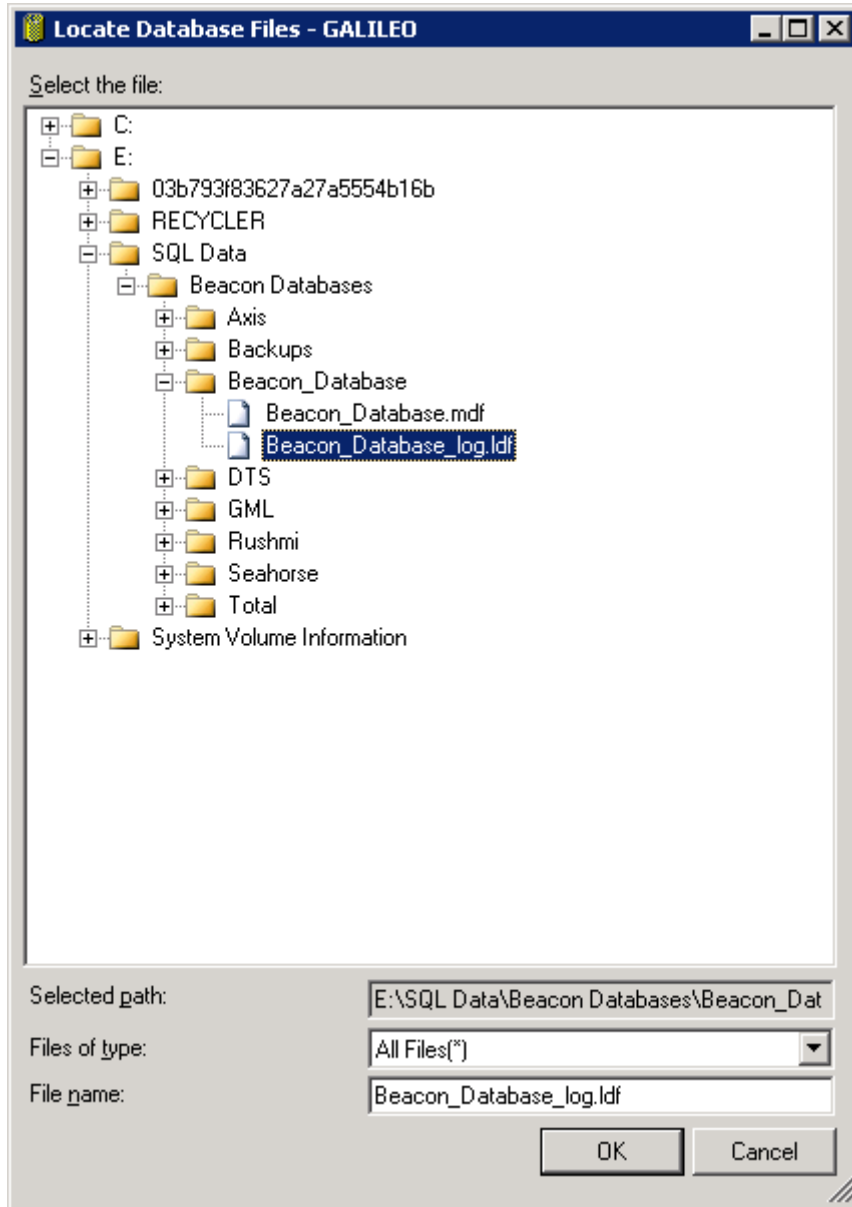
**Fig. 17**

❖ To specify the Path of the **Log File (LDF File)**, select the box as shown in Fig. 18.



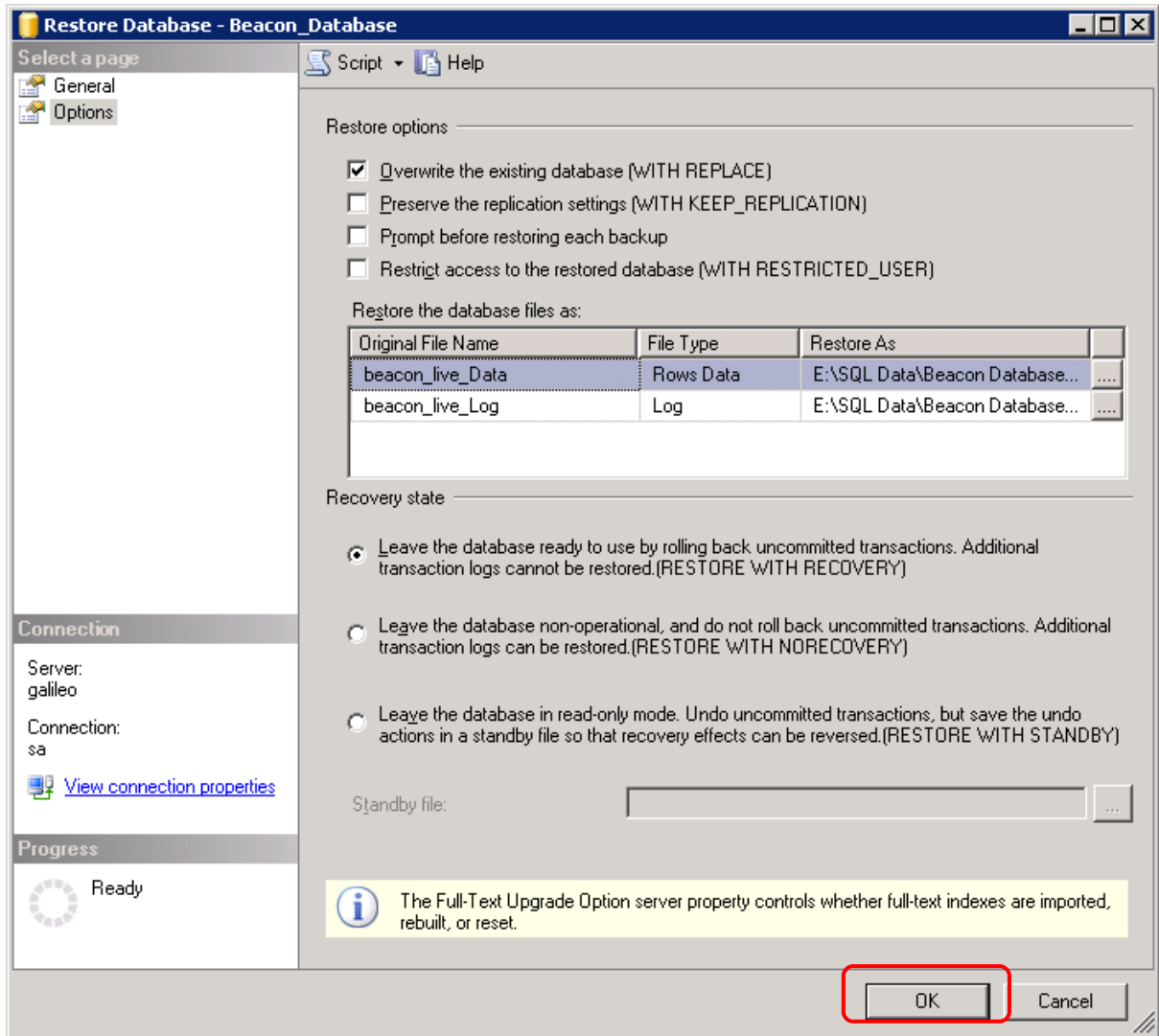
**Fig. 18**

- ❖ The **Locate Database Files** dialog box will be displayed.
- ❖ In this window, select the proper LDF file from the location where the database is created (For e.g. in Fig. 19, the **Beacon\_Database.ldf** file is selected since the database [Beacon\_Database] was created in that location).
- ❖ Now, click the OK button.



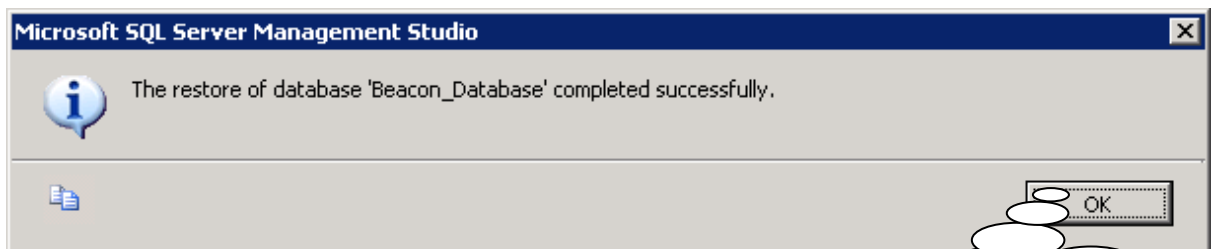
**Fig.19**

- ❖ The **Restore Database** dialog box will be displayed.
- ❖ Retain all the other options, which are selected by default.
- ❖ Click on **OK** to start the Restore process (As shown in Fig. 20).

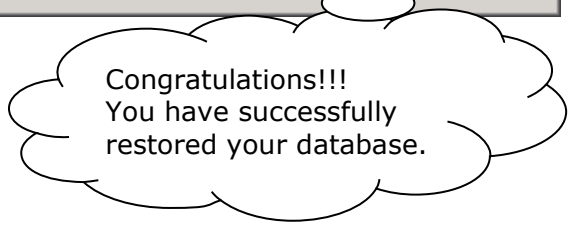


**Fig. 20**

- ❖ After some time, a **Confirmation message** will be displayed as shown below.
- ❖ Click on **OK** to complete the Database Restoration Process (Refer Fig. 21).

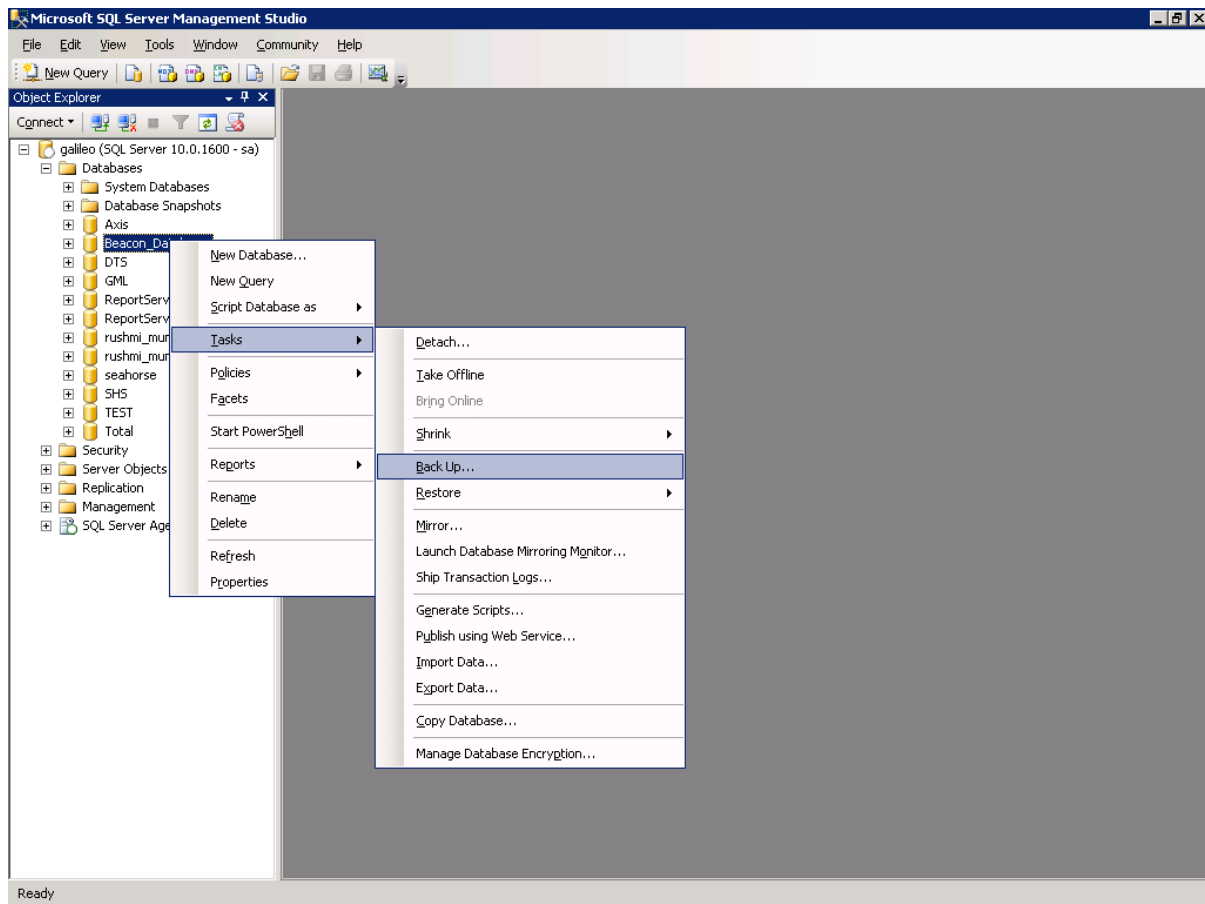


**Fig. 21**



## 2.3 Process for taking Backup of Database

- ❖ Open SQL Server Management Studio and connect to the Server, where the Starship Beacon database is maintained.

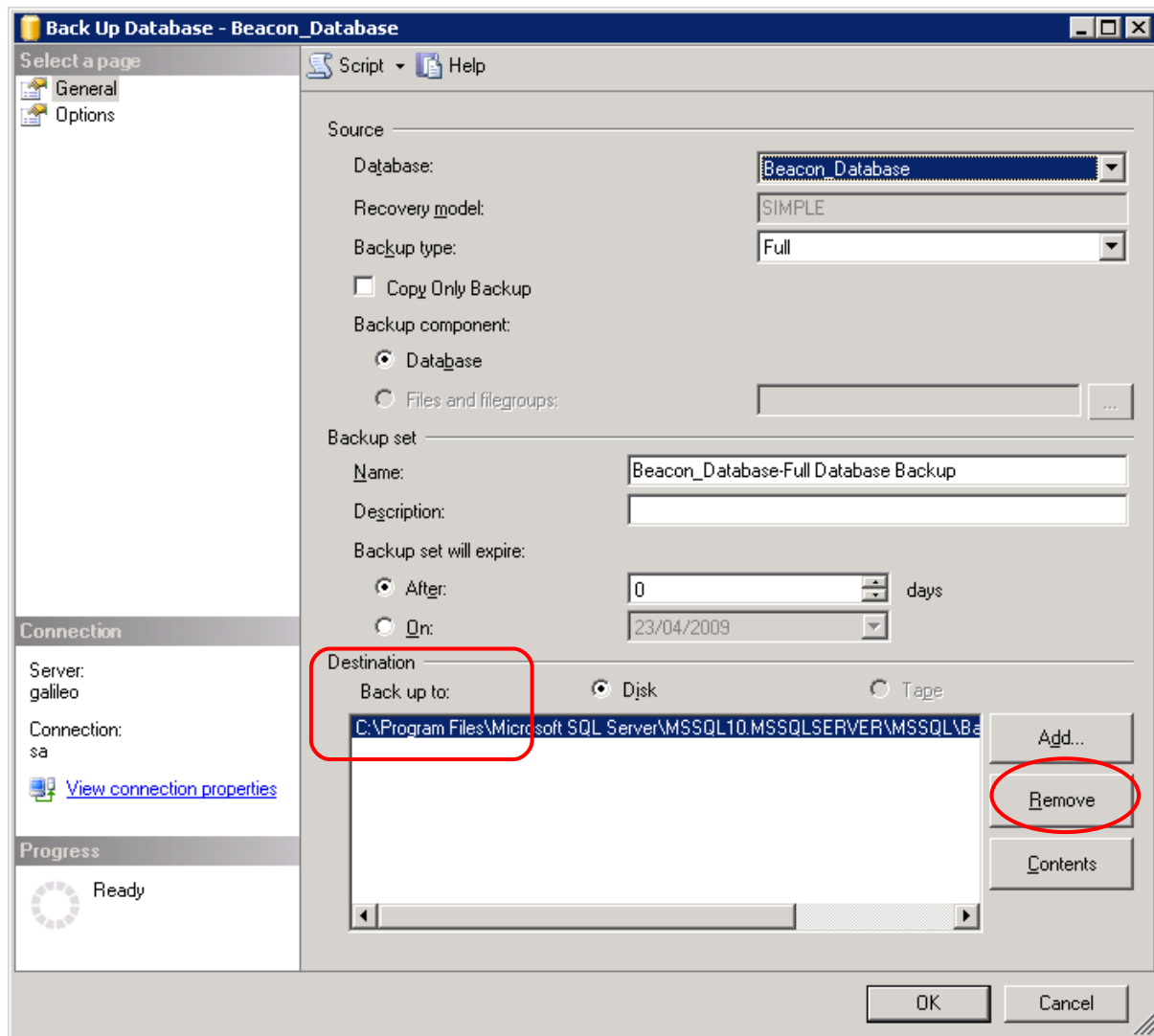


**Fig. 22**

- ❖ Right click on the database and select **All Tasks**.
- ❖ Select **Backup Database** (as shown above in Fig. 22).

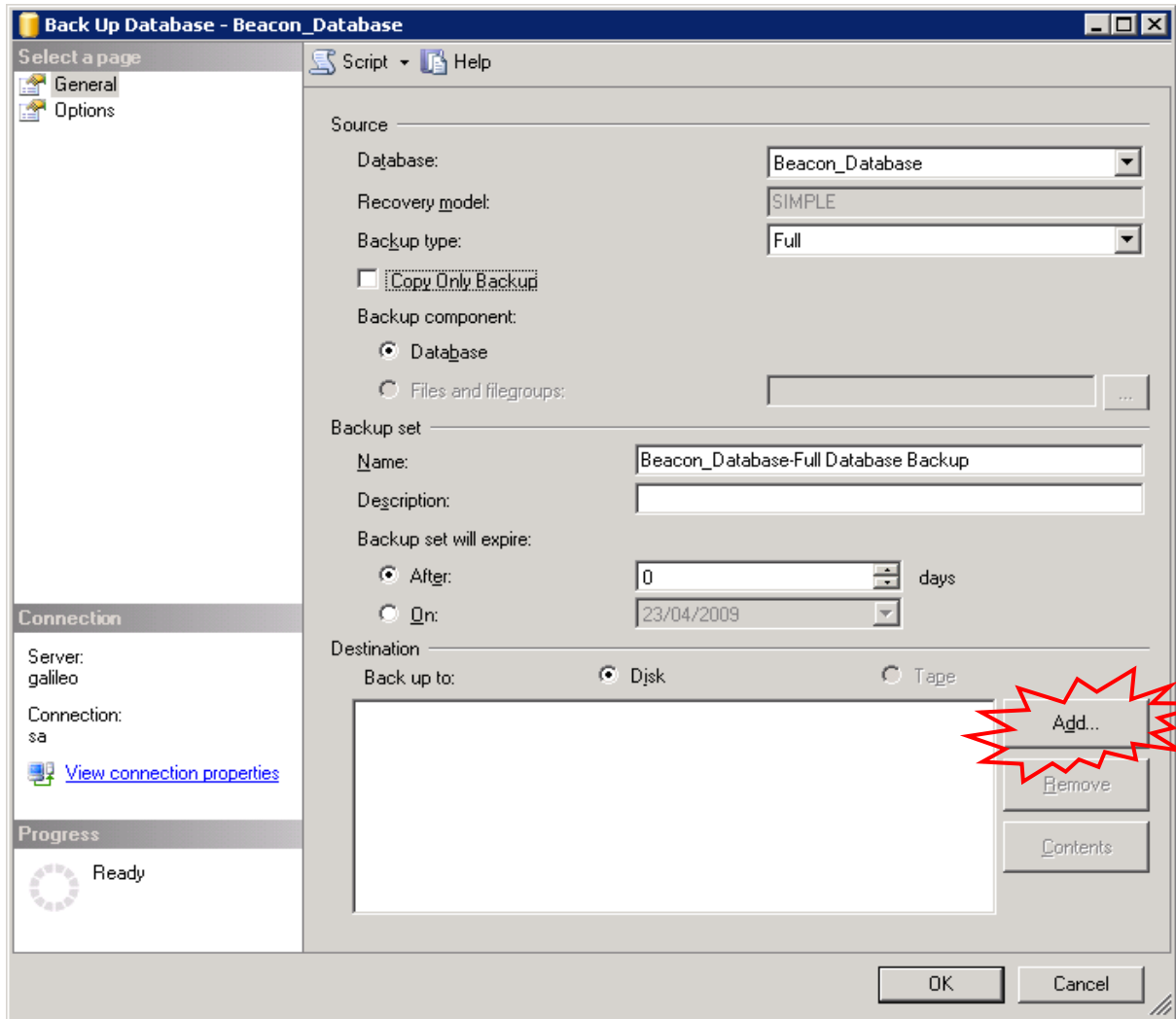


❖ The **Back Up Database** dialog box will be displayed (As shown in Fig. 23).



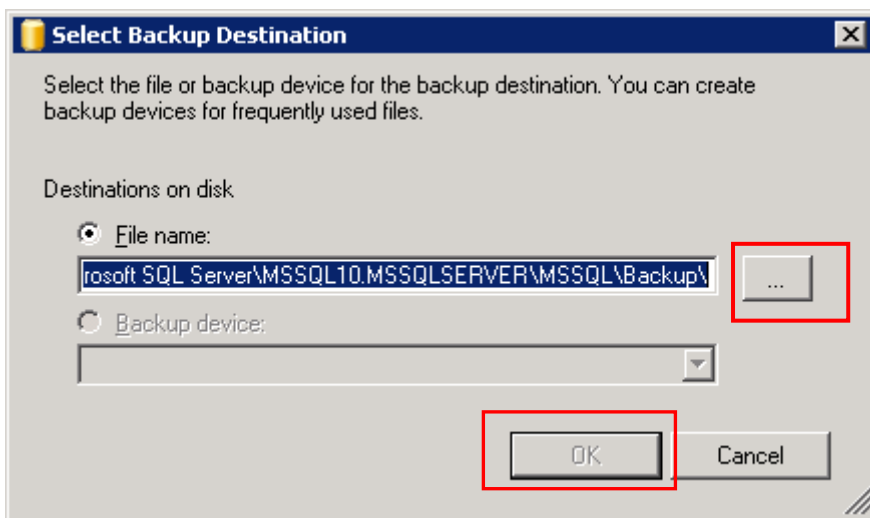
**Fig. 23**

❖ Clear all the files in the '**Destination Backup to:**' box by clicking on **Remove**. (As shown above in Fig. 23).



**Fig. 24**

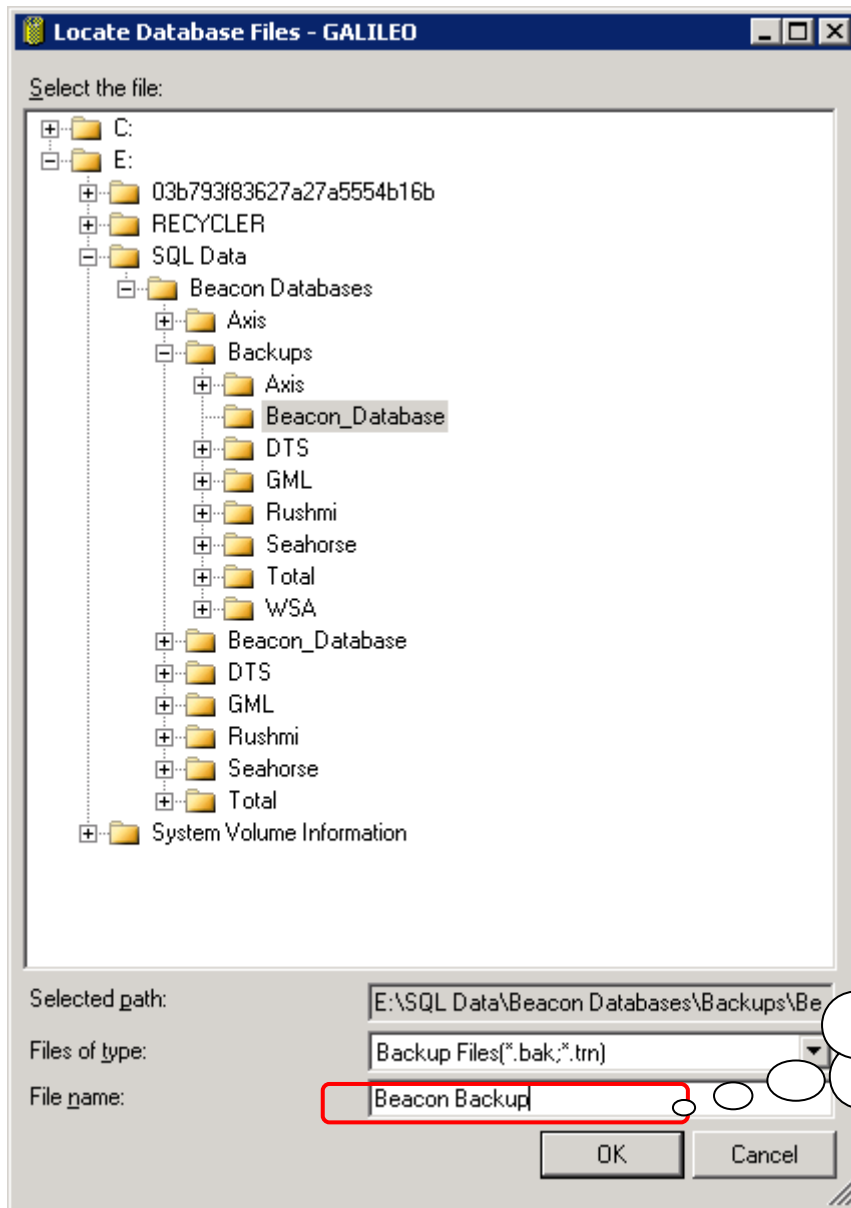
- ❖ To select a destination for the backup, click on the **Add** button. (As shown in Fig. 24).
- ❖ The **Select Backup Destination** dialog box will be displayed (as shown in Fig. 25).



**Fig. 25**

- ❖ Click on the Select box (as shown above in Fig. 25) to select an existing file **OR**

Create a new file by entering a new file name (as shown in Fig. 26)  
 For e.g. '**Beacon Backup**' is a new file that will be created under the folder  
 'E:\SQLDATA\Beacon Database\Backups\Beacon\_Database'.



**Fig. 26**

- ❖ Now, click on **OK** (as shown above in Fig. 26).
- ❖ The system will revert to the **Select Backup Destination** dialog box. Here, click on **OK** (as shown above in Fig. 25).

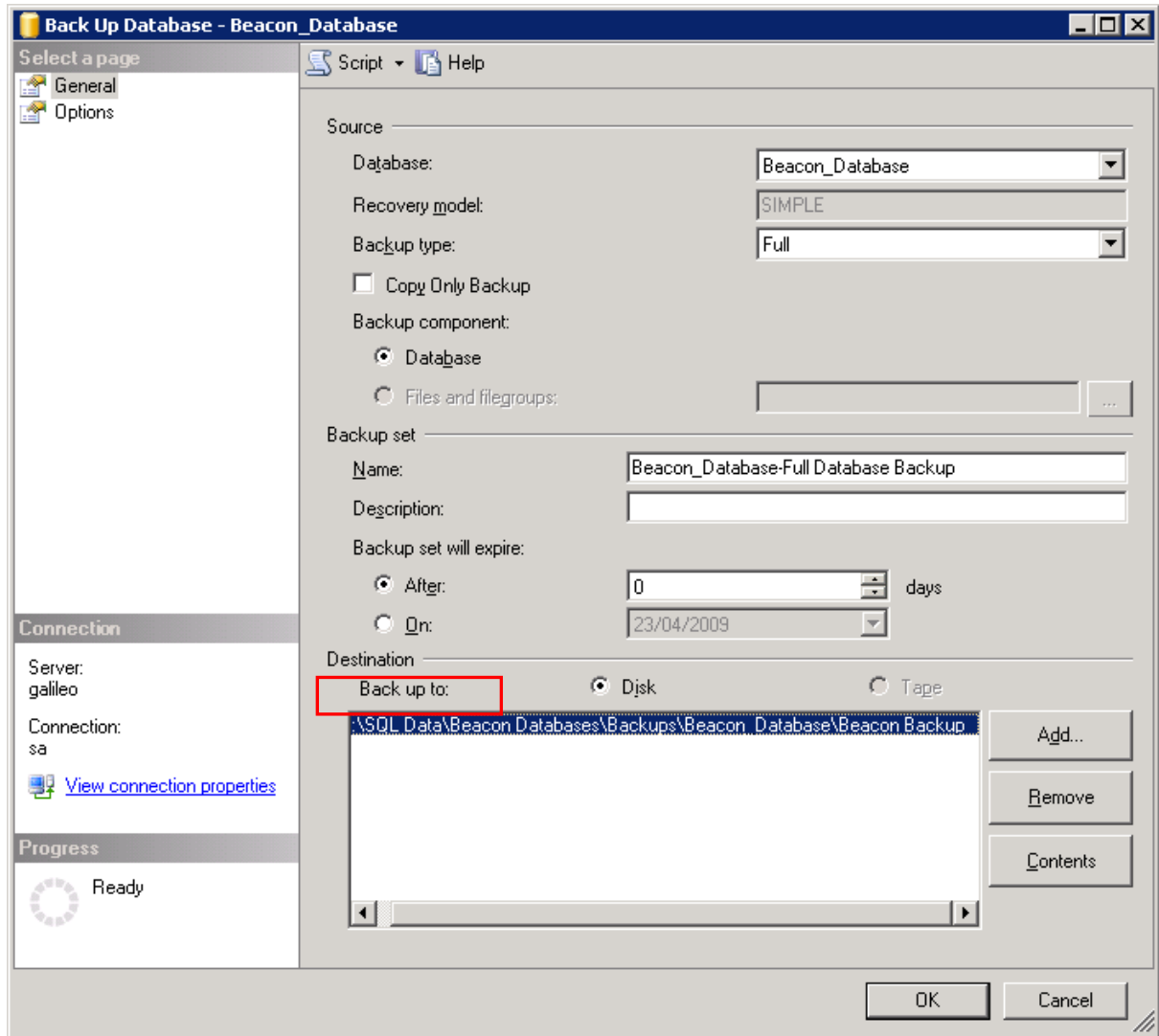
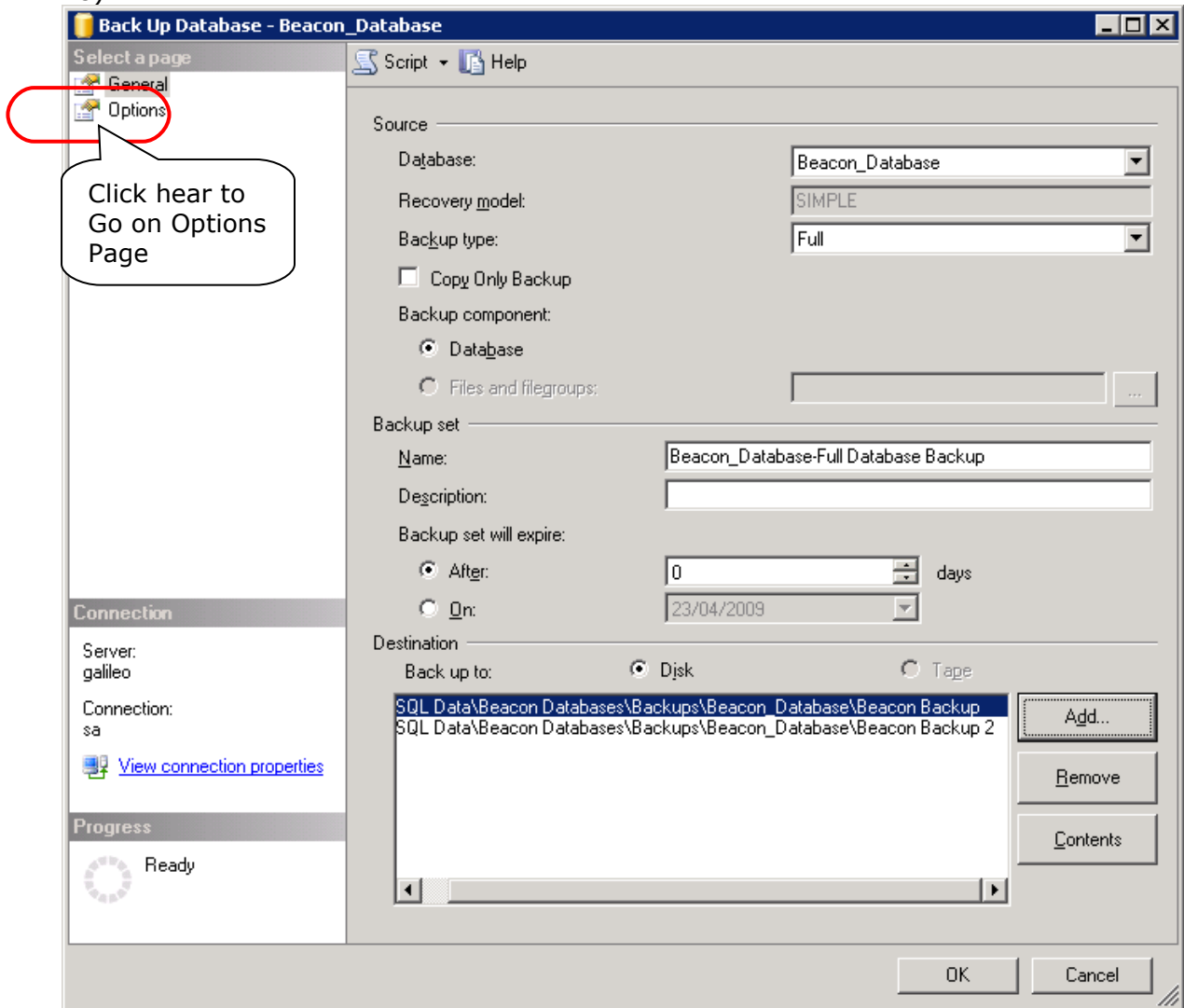


Fig. 27

- ❖ Thus, the selected file will be displayed in the "Backup to:" window (Please refer Fig. 27).

- ❖ If the Database backup file size is huge and cannot be copied onto a CD/DVD, then the Database backup can be broken up into multiple files (for eg. it can be taken in 5 different files, if required). In such case, click on the **Add** button to specify a different file name. Thus, the backup will be copied into multiple file names (Please refer Fig. 28).

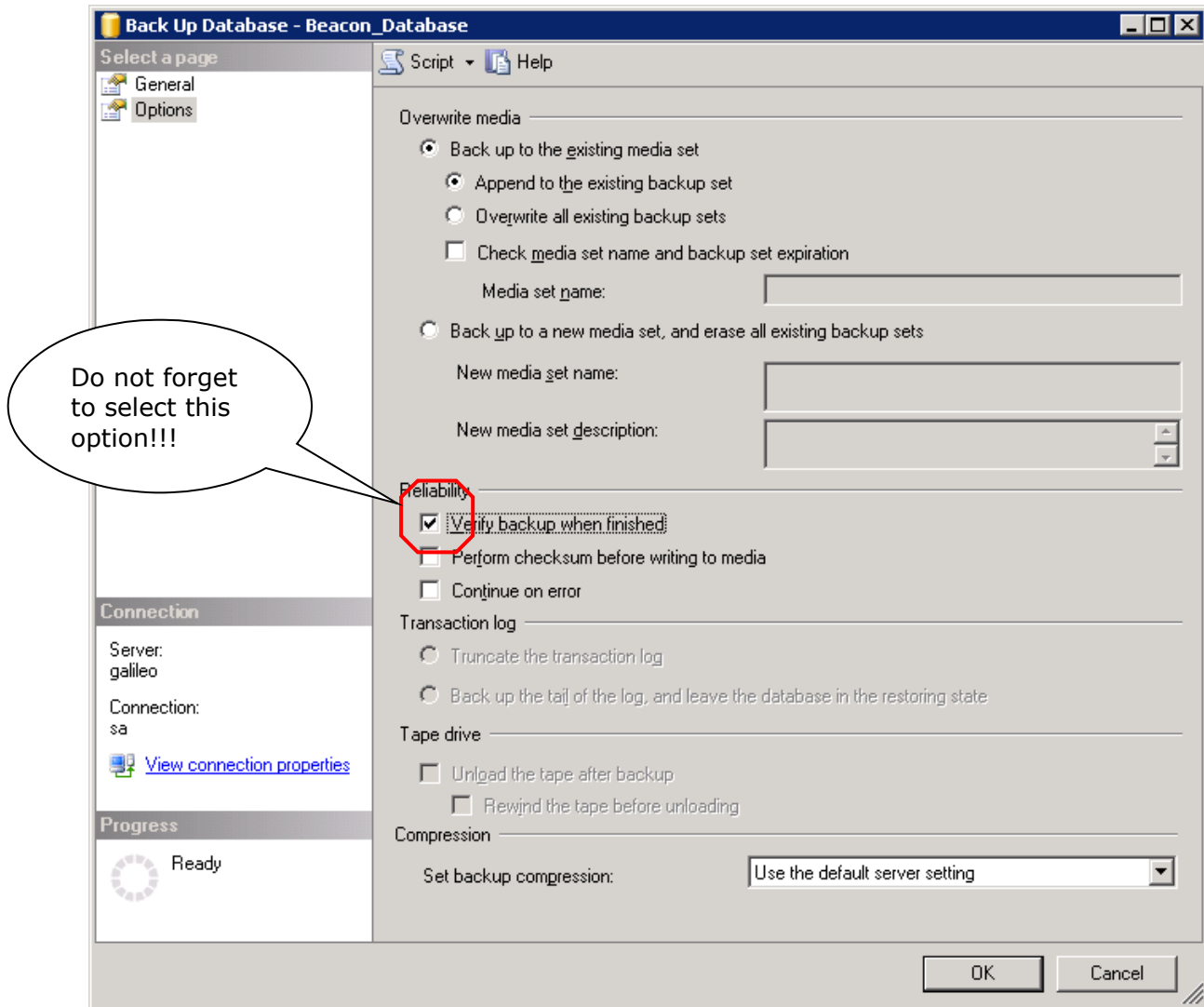


**Fig. 28**

- ❖ Retain all options, which are selected by default.
- ❖ Now click on the **Option** under Select a Page (Please refer Fig. 28).

- ❖ The **Back Up Database** dialog box will be displayed (as shown in Fig. 29).

- ❖ After that select the **Verify backup when finished** check box (as shown in Fig. 29).



**Fig. 29**

- ❖ Retain all options, which are selected by default.
- ❖ Now, click on **OK** to start the backup process.
  
- ❖ After some time the final Message box will appear as shown below.
- ❖ Click **OK** to complete the Database Backup Process in MS SQL 2008.

