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# DB Auto Backup Documentation

## V1.00



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## What is the DB Auto Backup Database

It is a database which has the necessary to enable daily auto backup of a database.

## How Does it Work?

The basic concept is that the code gets run at the startup of the database and checks to see if a backup has been performed that day, if none has been created, then the code proceeds to make a backup of each back-end file used in the front-end.

## A Little More Detail

The Backup process follows the following outline:

1. Check and see if a backup is required (has one already been done today)
2. Lock the database so other users cannot login temporarily (we want a copy when no one is working in the database)
3. Perform the backup
4. Log the backup to our Backup table
5. Unlock the database
6. Send the admin notification e-mail (if applicable)

This database follows the following steps:

- Run the AutoExec Macro
  - Relink the back-ends
  - Check if the database is Locked, or not
    - Exits the database if the database is currently locked
  - Run the Backup routine
    - It determines if performing a backup is actually necessary or not (per the outlined steps above)

## Installation

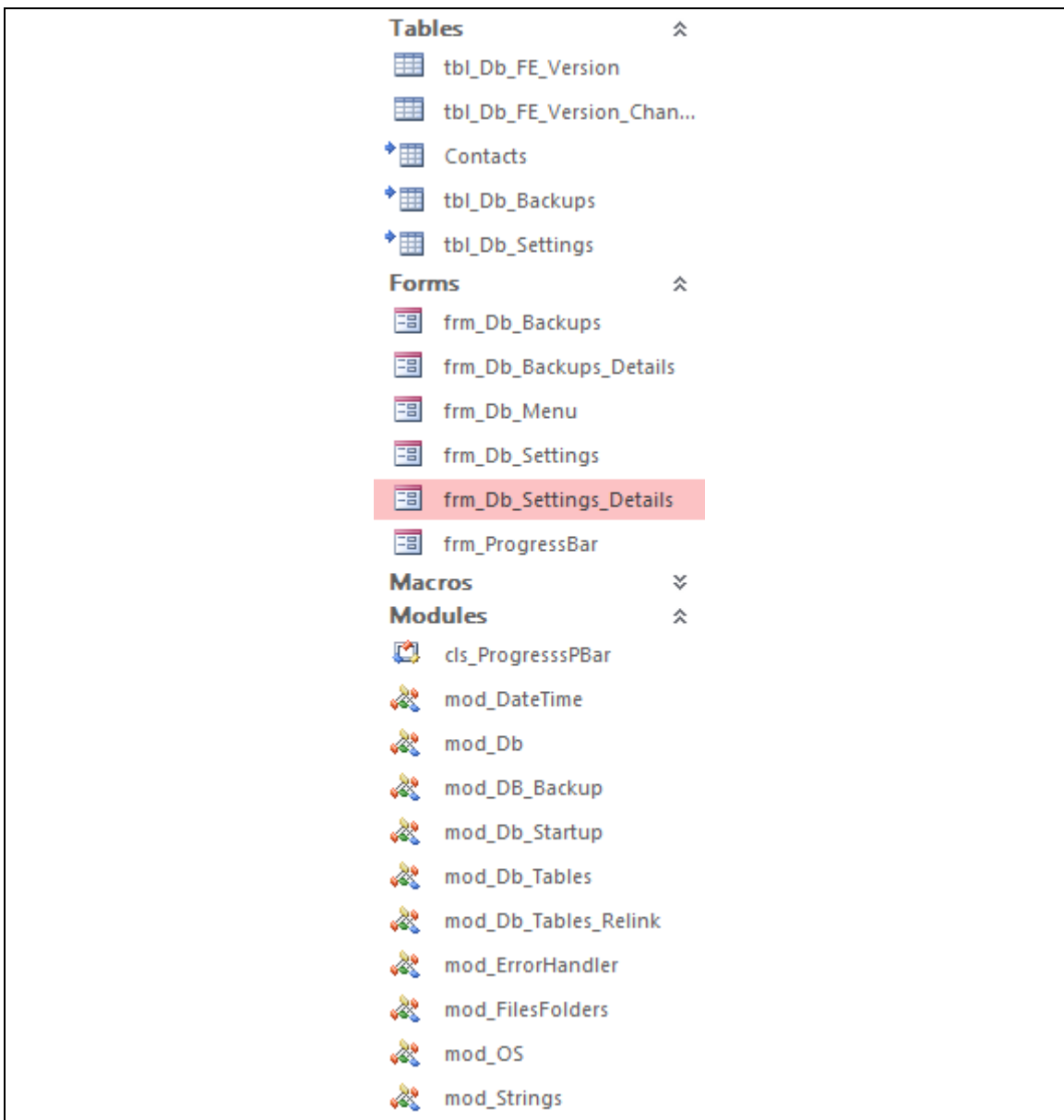


Figure 1 – Database Objects

Simply copy/install the database objects into your database.

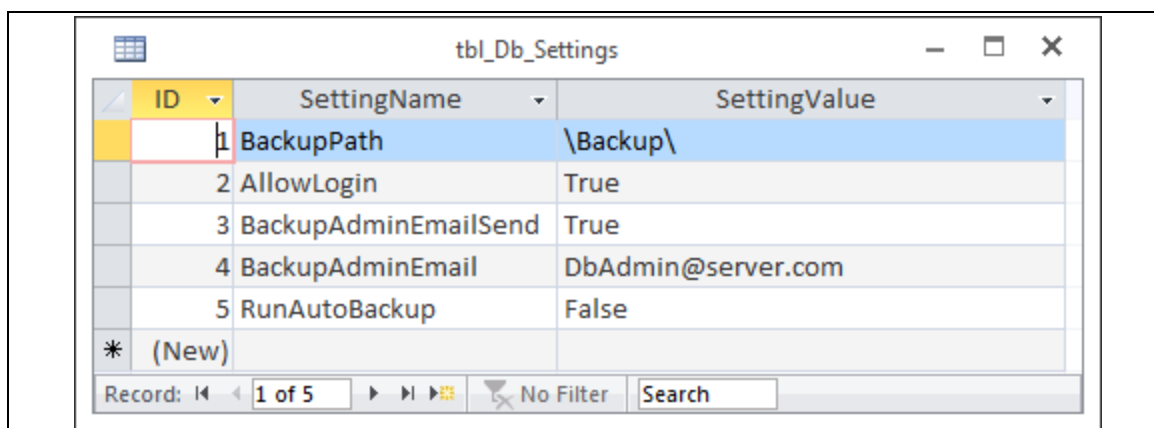
## Database Objects Overview

Object Name	Object Type	Description
tbl_Db_FE_Version	Table	Version History of the FE. These tables can be deleted with no impact on the Auto Backup routine.
tbl_Db_FE_Version_Changes	Table	
Contacts	Table	Sample linked table, can be removed and

		replaced with your linked tables. This tables can be deleted with no impact on the Auto Backup routine.
tbl_Db_Backups	Table	Log table used by the Auto Backup routine to store when database backups occurred
tbl_Db_Settings	Table	Table housing all the backup setting (see Configuration below)
frm_Db_Backups	Form	Listing of Backups that have run in the past
frm_Db_Backups_Details	Form	Subform for the frm_Db_Backups form
frm_Db_Menu	Form	Main Menu
frm_Db_Settings	Form	Listing of the various database settings (see Configuration below)
frm_Db_Settings_Details	Form	Subform for the frm_Db_Settings form
frm_ProgressBar	Form	Progress meter that displays while the backup process executes
AutoExec	Macro	Launches all our startup code including the Auto Backup routine itself
Cls_ProgressBar	Class Module	Used by our frm_ProgressBar
mod_DateTime	Module	<p>All the VBA code required for the Auto Backup routine. I organize the procedure by subject, thus so many modules, this make it easier to find procedures.</p> <p>The mod_Db_Startup module contain the StartUp() function which is initiated by our AutoExec macro which starts the entire process.</p>
mod_Db	Module	
mod_Db_Backup	Module	
mod_Db_Startup	Module	
mod_Db_Tables	Module	
mod_Db_Tables_Relink	Module	
mod_ErrorHandler	Module	
mod_FilesFolders	Module	
mod_OS	Module	
mod_Strings	Module	

## Configuration

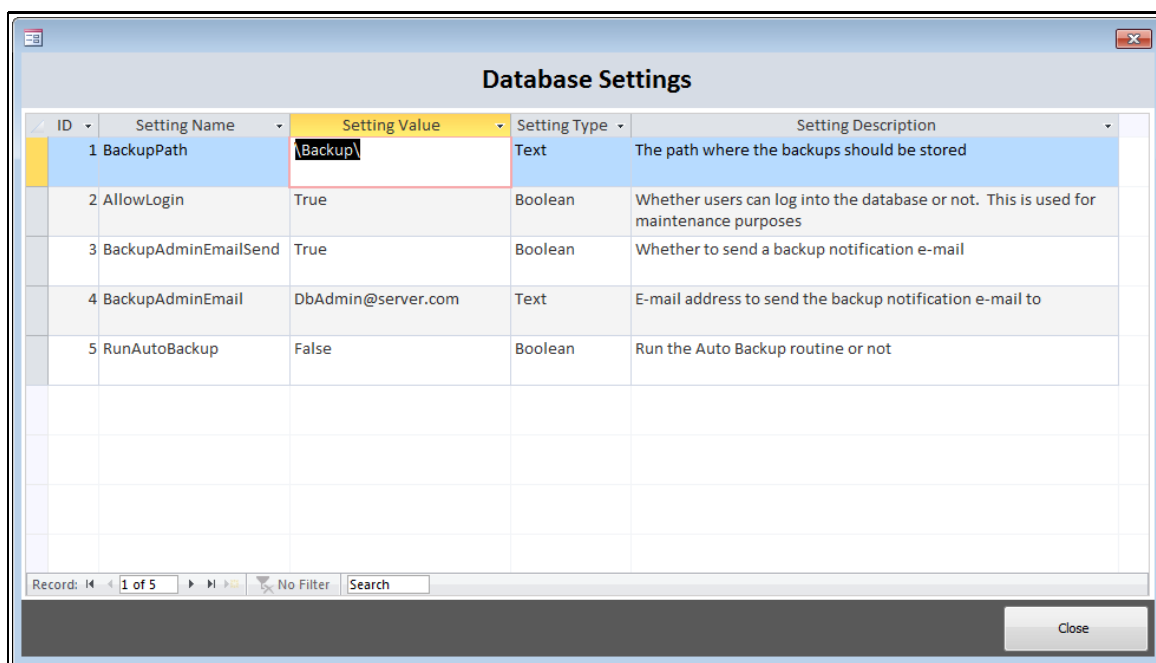
The entire process is governed by the tbl\_Db\_Settings table and the frm\_Db\_Settings form



ID	SettingName	SettingValue
1	BackupPath	\Backup\
2	AllowLogin	True
3	BackupAdminEmailSend	True
4	BackupAdminEmail	DbAdmin@server.com
5	RunAutoBackup	False
*	(New)	

Record: 1 of 5 | No Filter | Search

Figure 2 - tbl\_Db\_Settings table



ID	Setting Name	Setting Value	Setting Type	Setting Description
1	BackupPath	Backup\	Text	The path where the backups should be stored
2	AllowLogin	True	Boolean	Whether users can log into the database or not. This is used for maintenance purposes
3	BackupAdminEmailSend	True	Boolean	Whether to send a backup notification e-mail
4	BackupAdminEmail	DbAdmin@server.com	Text	E-mail address to send the backup notification e-mail to
5	RunAutoBackup	False	Boolean	Run the Auto Backup routine or not

Record: 1 of 5    No Filter    Search    Close

Figure 3 - frm\_Db\_Settings Form

Setting Name		
AllowLogin	True/False	Whether users can log into the database or not. This is used for maintenance purposes  True    The database can be used False    The database is locked and users are not enabled to login.
BackupPath	String	The path where the backups should be stored
BackupAdminEmailSend	True/False	Whether to send a backup notification e-mail True    Send an automated e-mail notification False    Do not send an automated e-mail notification
BackupAdminEmail	String	E-mail address to send the backup notification e-mail to
RunAutoBackup	True/False	Run the Auto Backup routine or not True    Run the automated backup at the startup of the database False    Do not run the automated backup

## Specific to This Demo

In this demo, I have included an automated linked-Table relinking mechanism. This may, or may not, be necessary in your production database.