



focus on essentials

Database Maintenance

- **Applying Patches**
- **Backup / Recovery Procedures**
- **Optimizing SQLBase and MS SQL Server**

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What is Patching?

Tweaking of a program

- ◆ .dll
- ◆ .exe
- ◆ .qrp

Usually used to address minor bugs or to add functionality

Where do you get patches.

E:Info

INFOR
focus on essentials

Online Help
Affiliate Menu
E:Info web menu

Welcome David Mcroberts
E:info for AutoRelease
Your Support ID is 90000012

Recommend Internet Explorer
Employee Menu
Log Out

--- Please select a menu ---

Knowledge Center

- No Wait Response (FAQ's, Tips, Solutions)
- Documentation & Downloads
- User Group Presentations

My Support

- Review existing incident
- Log - Update Incident
- Request Permanent ACM License Key
- Request Adobe Central Pro License Key
- Change E:Info website password
- Change E:Info website User I.D.
- Change E:Info Email Options

News Center

- AutoRelease Announcements
- AutoRelease Education

Overviews

- Account overview
- Einfo overview

Download to V:\vmfg\patch641

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“If it ain’t broke, don’t fix it”

It is recommended to apply patches

- **When advised by Infor or Shop9000**
- **To a test environment**
(Shop9000 can help you with this)

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Applying Patches

- ◆ **ALWAYS backup your live database**
- ◆ Apply the patches (.exe .qrp .dll) to you VMFG directory
- ◆ Apply .sql patches to your database
- ◆ “Match to standard” your overriding QRPs

Running Script

- ◆ Locate and run the file “VMCVTUTL.EXE”.

Conversion Utility

File

Database Engine

Sqlbase

SQL Server

AS/400

Oracle

Current version:

Target version:

Database:

SA Password:

SQL Server name: Change to correct name of server as set in SQL.INI

Use of this utility in stand-alone mode should be restricted to creation of new databases only.

The soft error mode applies only to .SQL scripts and is provided to allow repeat runs of scripts during development.

The run script button is a utility which permits running of scripts intended to patch the database. DO NOT RUN CONVERSION SCRIPTS WITH THIS FUNCTION; the database version will not be updated correctly.

Contact customer support if you have questions.

Soft error mode in scripts

VISUAL Enterprise - About - DEMO2/SYSADM

VISUAL Enterprise^(tm)

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Program:	MENU - VISUAL Enterprise(tm)
System Version:	6.4.1
Program Version:	6.4.1.048
Database Patch Level:	Sql Server 641.13

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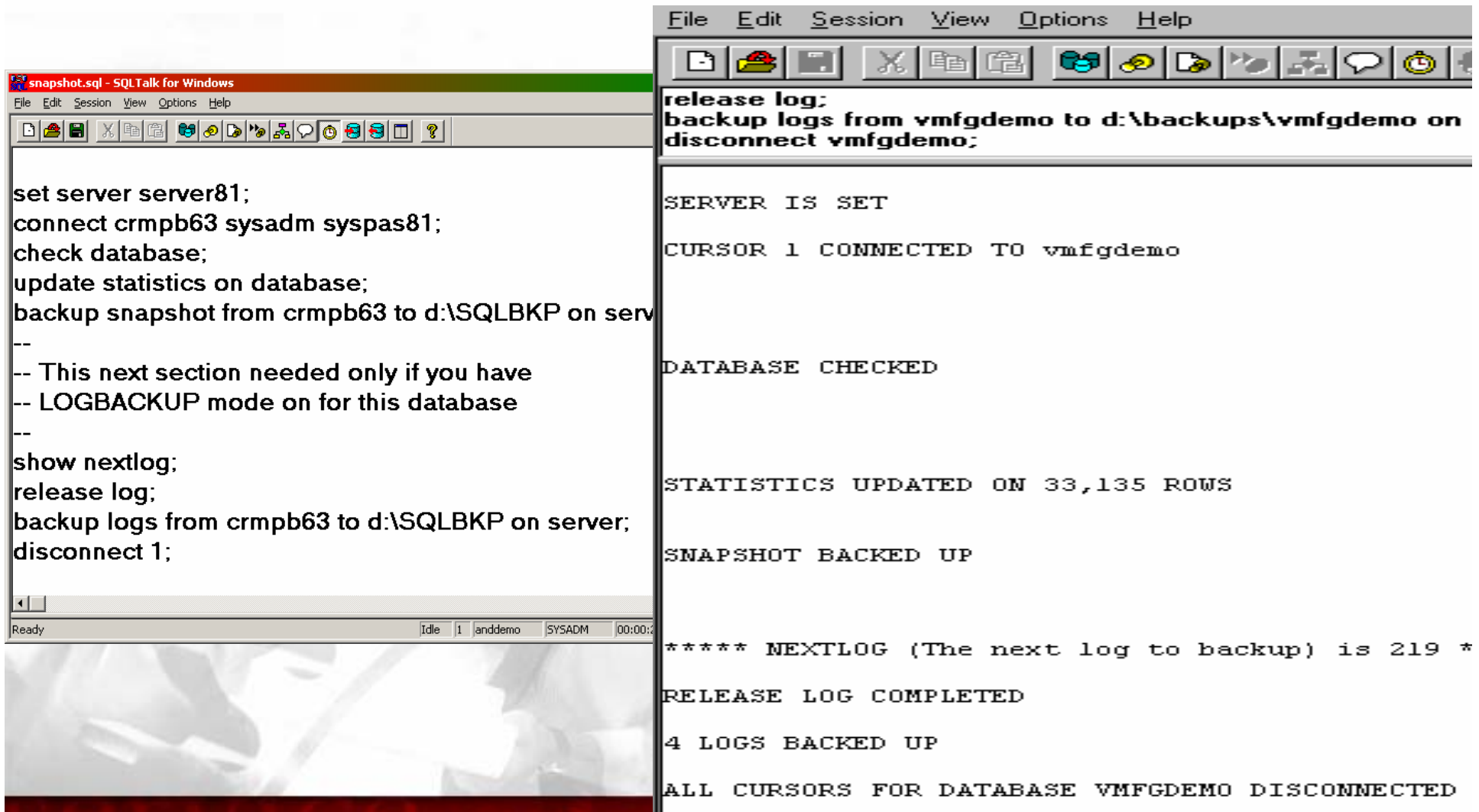


Now you are fully patched!!!

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Performing Backups with SQLTalk



The image shows a screenshot of the SQLTalk for Windows application. The window title is "snapshot.sql - SQLTalk for Windows". The menu bar includes "File", "Edit", "Session", "View", "Options", and "Help". The toolbar contains various icons for file operations and session management. The main text area contains a SQL script with the following commands:

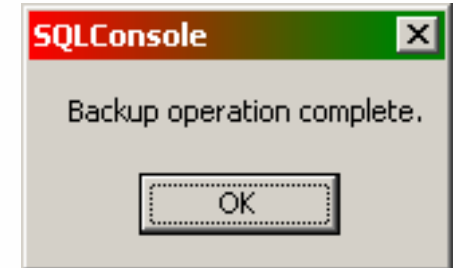
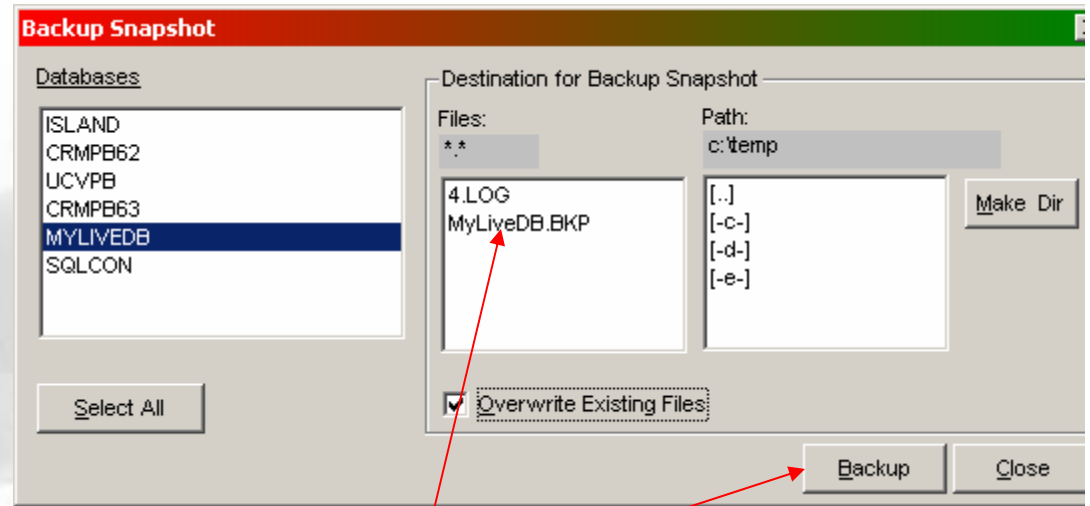
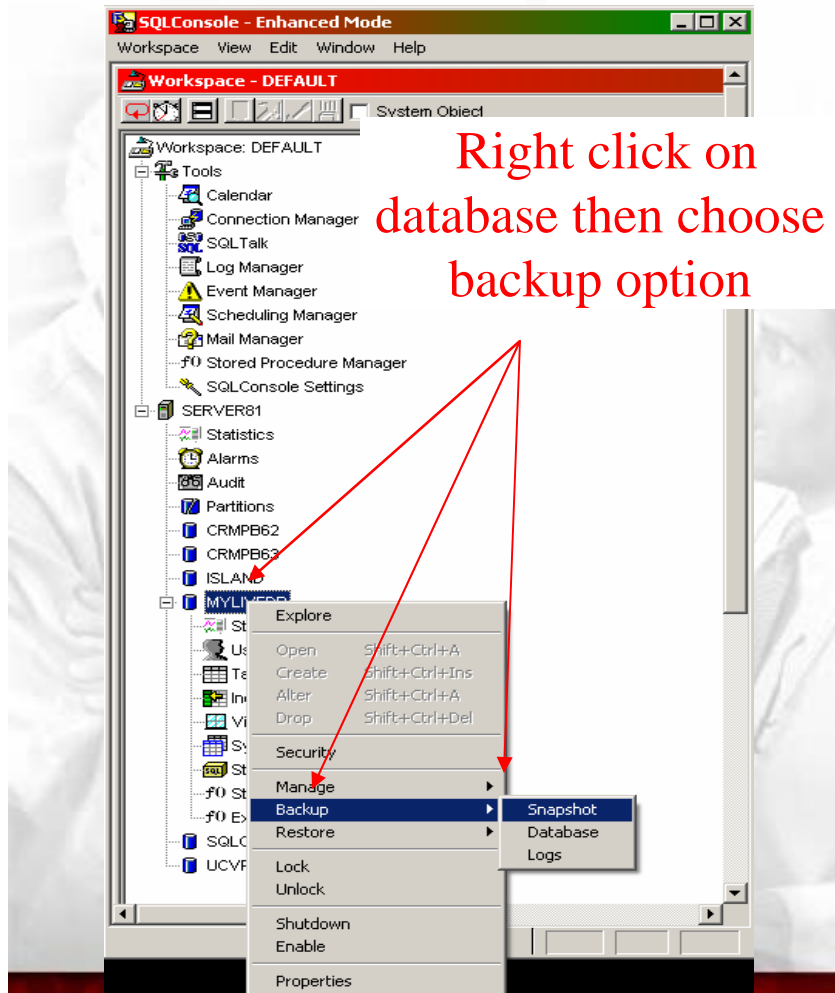
```
set server server81;  
connect crmpb63 sysadm syspas81;  
check database;  
update statistics on database;  
backup snapshot from crmpb63 to d:\SQLBKP on serv  
--  
-- This next section needed only if you have  
-- LOGBACKUP mode on for this database  
--  
show nextlog;  
release log;  
backup logs from crmpb63 to d:\SQLBKP on server;  
disconnect 1;
```

The output window on the right shows the following execution results:

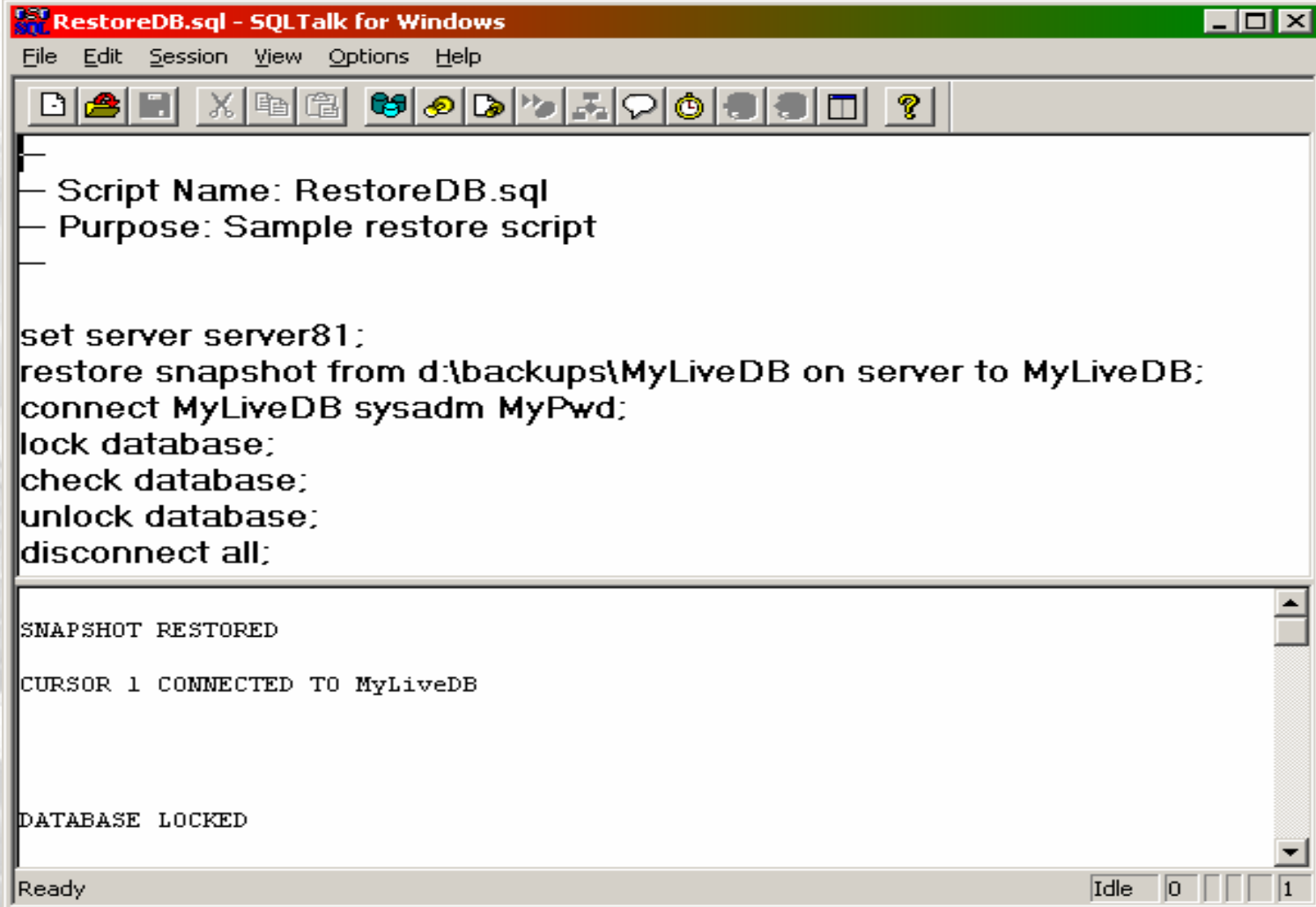
```
release log:  
backup logs from vmfgdemo to d:\backups\vmfgdemo on  
disconnect vmfgdemo;  
  
SERVER IS SET  
  
CURSOR 1 CONNECTED TO vmfgdemo  
  
DATABASE CHECKED  
  
STATISTICS UPDATED ON 33,135 ROWS  
  
SNAPSHOT BACKED UP  
  
***** NEXTLOG (The next log to backup) is 219 *  
RELEASE LOG COMPLETED  
  
4 LOGS BACKED UP  
  
ALL CURSORS FOR DATABASE VMFGDEMO DISCONNECTED
```

The status bar at the bottom of the application shows "Ready", "Idle", "1", "anddemo", "SYSADM", and "00:00:2".

Performing Backups with SQLConsole



Performing Restore in SQLTalk



The screenshot shows a window titled "RestoreDB.sql - SQLTalk for Windows". The window has a menu bar with "File", "Edit", "Session", "View", "Options", and "Help". Below the menu bar is a toolbar with various icons. The main area of the window is divided into two sections. The top section contains a script with the following text:

```
—  
— Script Name: RestoreDB.sql  
— Purpose: Sample restore script  
—  
set server server81;  
restore snapshot from d:\backups\MyLiveDB on server to MyLiveDB;  
connect MyLiveDB sysadm MyPwd;  
lock database;  
check database;  
unlock database;  
disconnect all;
```

The bottom section shows the output of the script execution:

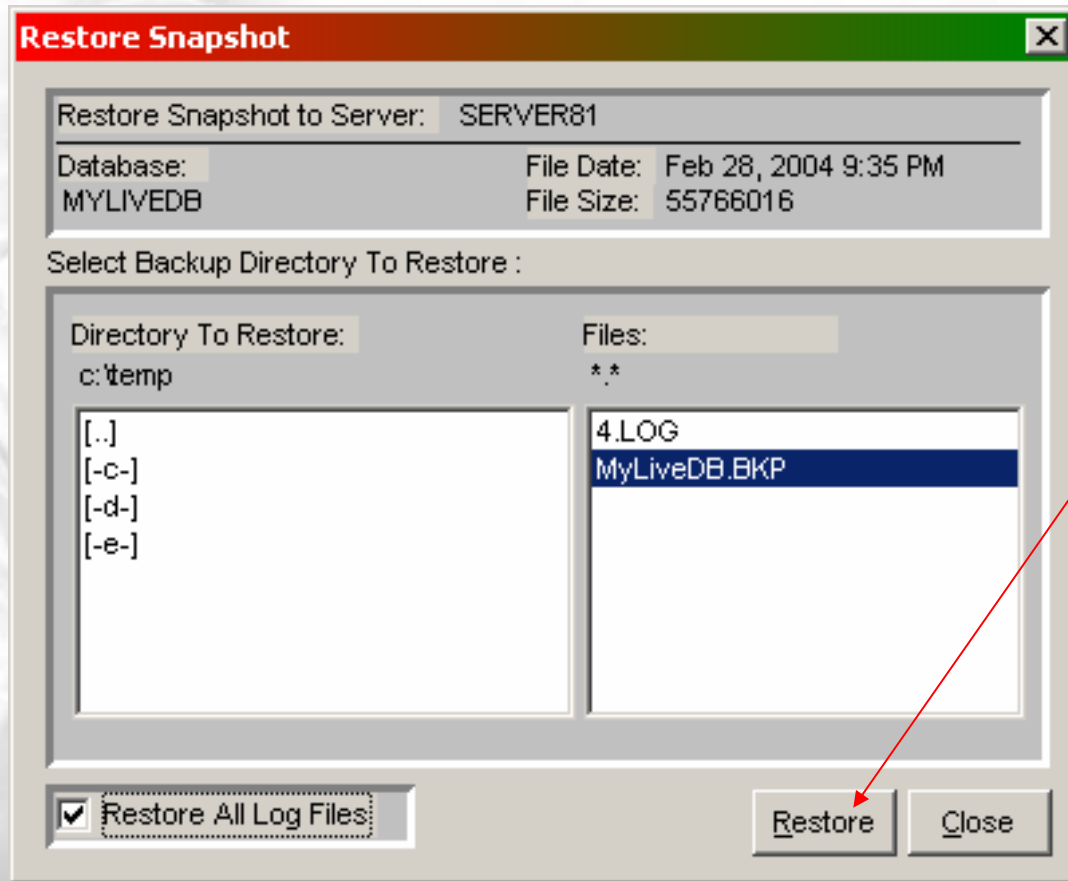
```
SNAPSHOT RESTORED  
  
CURSOR 1 CONNECTED TO MyLiveDB  
  
DATABASE LOCKED
```

At the bottom of the window, the status bar shows "Ready" on the left and "Idle 0" followed by a progress indicator and "1" on the right.

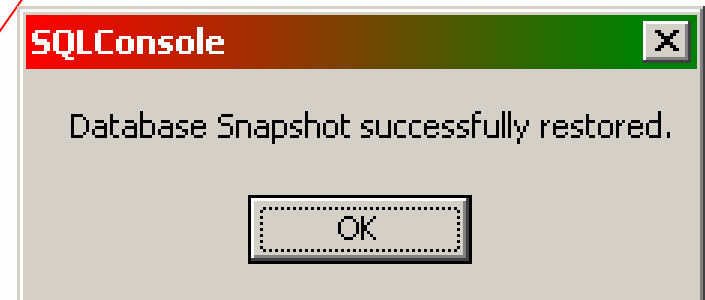
Restore using sql console

Restoring through SQLConsole

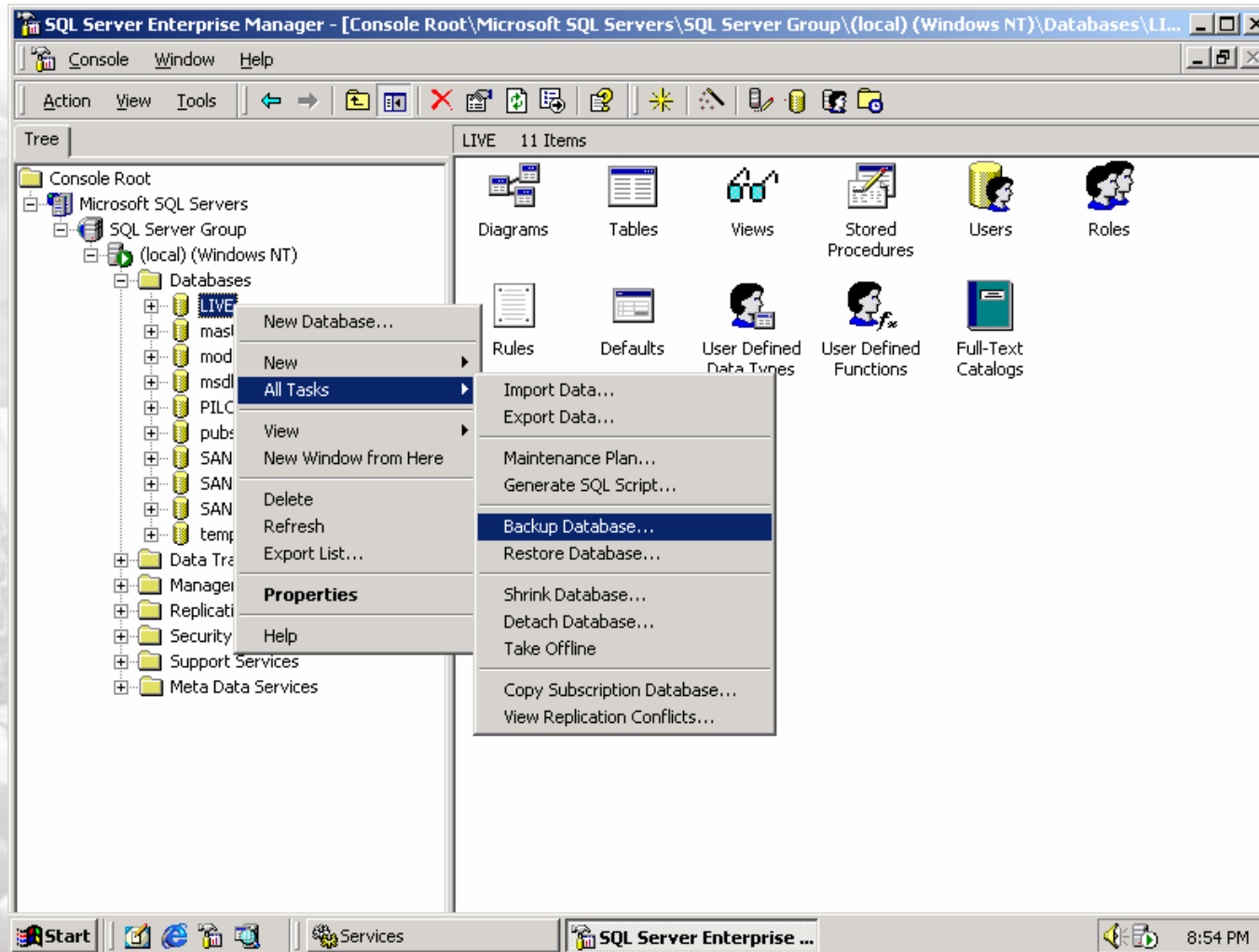
Right click on the database then choose the RESTORE option



Then click the restore button



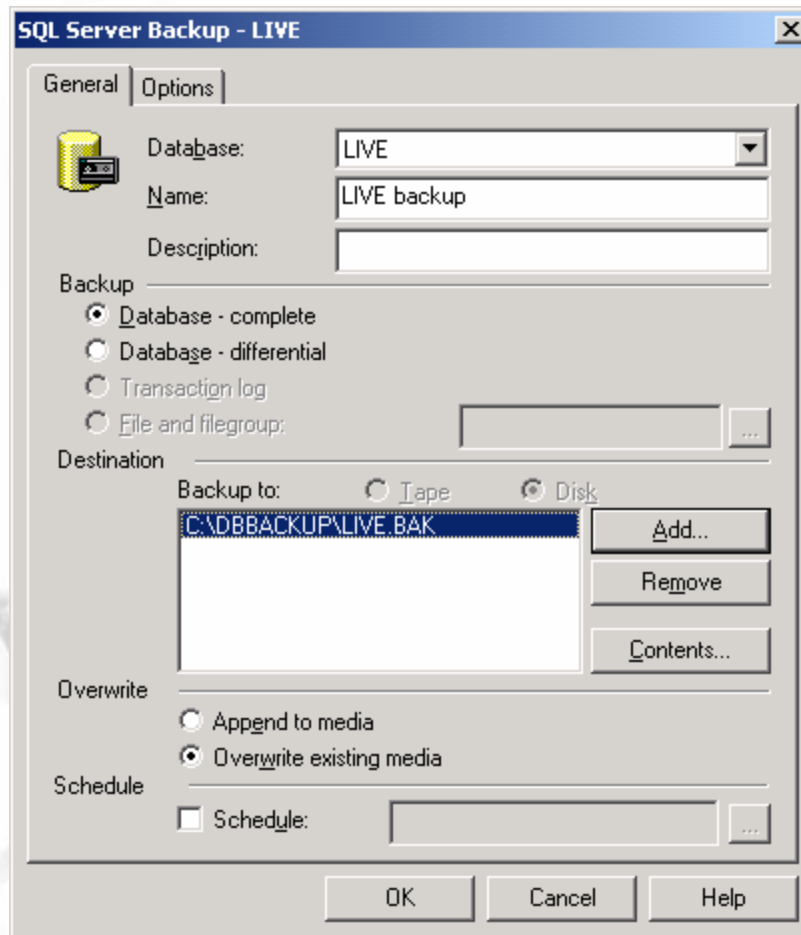
Backup in MSSQL



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Backing Up MSSQL



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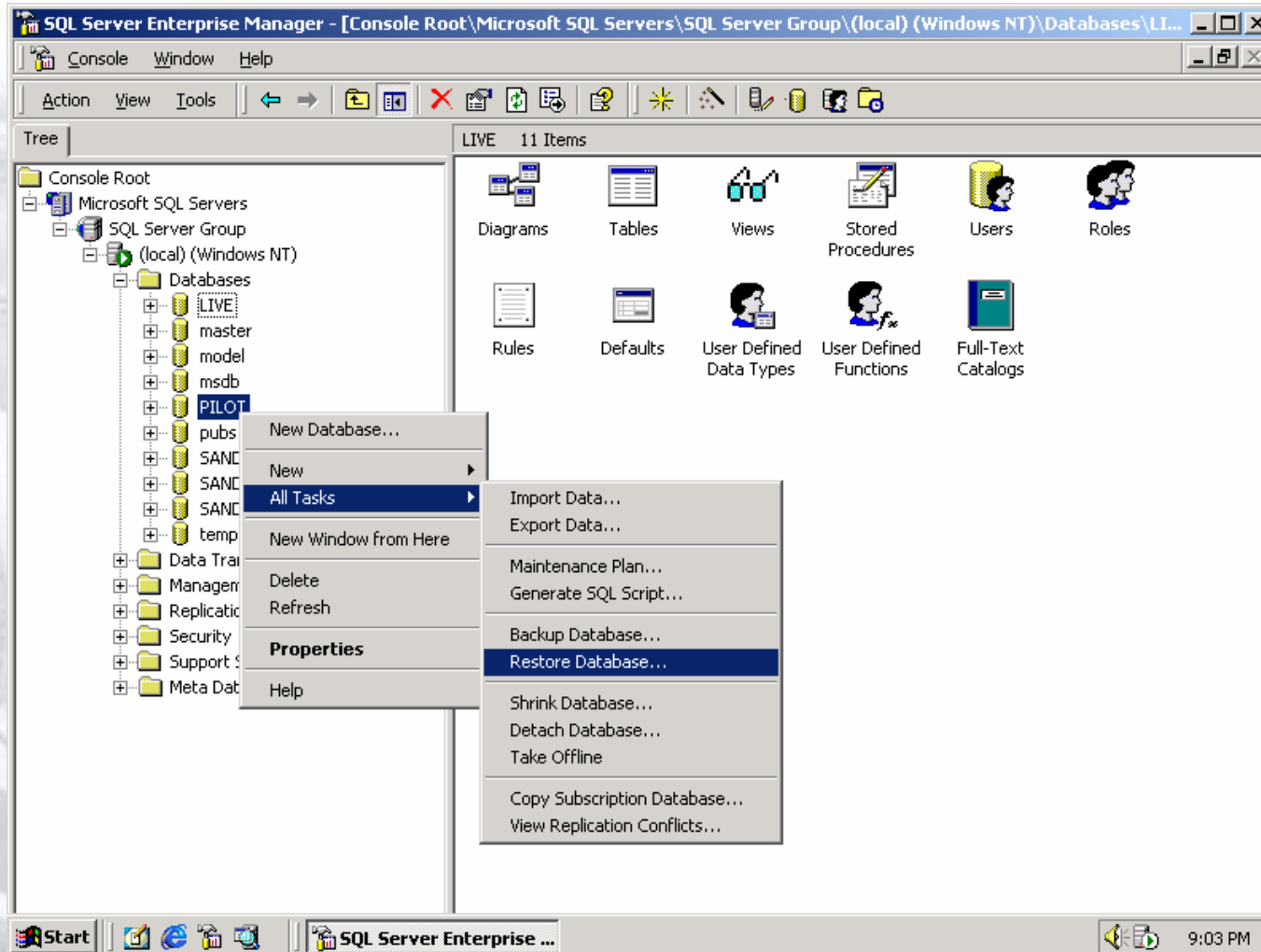


Now you have fully backup your Database!!!

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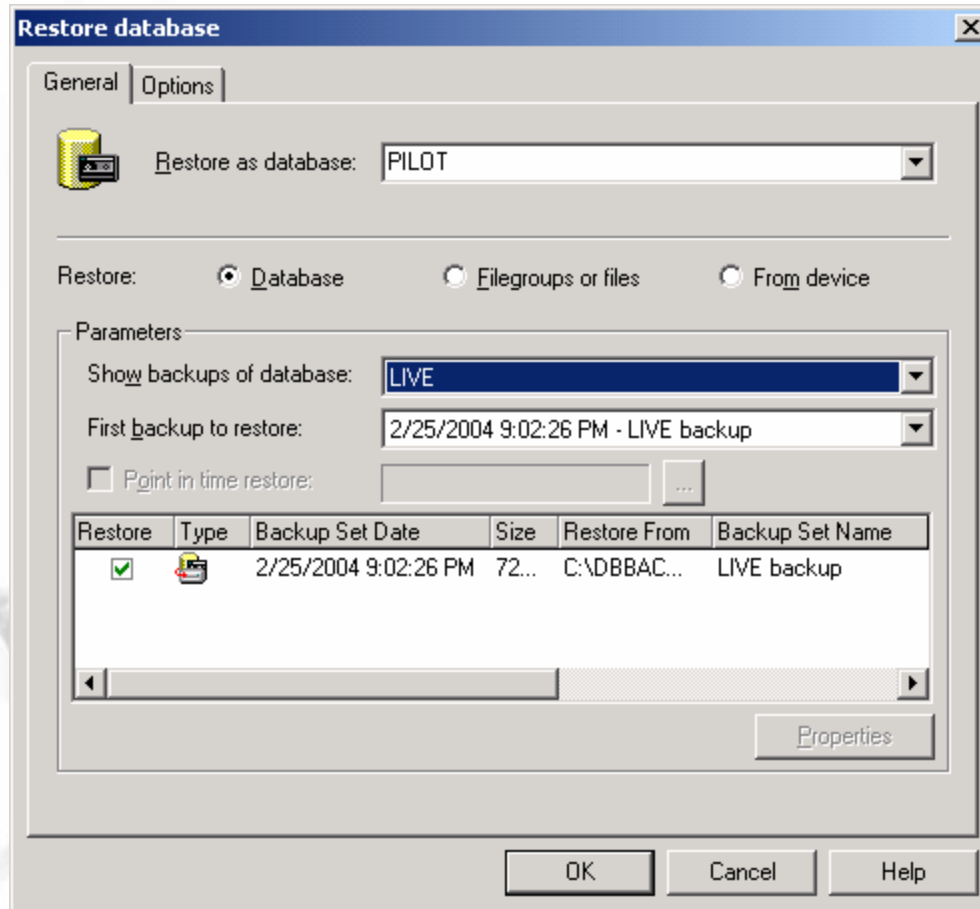
Restoring MSSQL



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Restoring MSSQL





Your Database is now fully Restored!!!

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Optimizing SQLBase

- **Cache Tuning**
- **Lock Monitoring**
- **REORG**
- **Database Configuration**

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Cache Tuning

- **Area on the computer memory on the database server machine that contains copies of pages that users are reading or writing**
- **SQLBase has two types of Cache**
 - CACHE
 - SORTCACHE

Lock Monitoring

The screenshot displays the Shop9000 software interface. The main window is titled 'VISUAL Manufacturing - VMFGDEMO/FRED' and shows a menu bar with 'File', 'Admin', 'Sales', 'Inventory', 'Purchasing', 'Scheduling', 'Eng/Mfg', 'Equip Maint', 'EIS', 'Ledger', and 'Receivables'. Below this is a sub-window titled 'VISUAL Manufacturing - t Maintenance - VMFGDEMO/FRED' with a menu bar including 'File', 'Edit', 'View', 'Maintain', 'Info', 'Options', and 'Help'. The main content area is titled 'Warehouse Locations for Part 1/4PLATE' and contains a table with the following data:

<Warehouse ID>	<Location ID>	Status	Locked	Primary	Auto Issue	Inspect
MMC-HYD	BLDG1	Available	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MMC-HYD	BLDG2	Available	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MMC-HYD						
✓ MMC-MAIN						
MMC-MAIN						
MMC-MAIN						
MMC-SEC						
MMC-SEC						
MMC-SEC						

An 'Sql Error' dialog box is overlaid on the table, displaying the following message: 'The database manager has issued a time out error. Another user is locking part of the database needed to complete this transaction. Try your transaction again.' The error number is 1805. The dialog box has 'Continue' and 'Detail' buttons.

REORG

- **A process to clean up your database**
 - Increases response time
 - Reduced disk space
 - Fixes corrupt indexes
- **.bat (can be provided and implemented by Shop)**
 - Unloads
 - Deletes
 - Creates new blank database – with the same name
 - Loads

DO NOT AUTOMATE BUT RUN IT ONCE A MONTH

Database Configuration

- A straight database server is best
- Do not use the server as a workstation
- Disable screen savers on the server
- Black background help
- Hardware specs. i.e IDE vs SCSI, server hardware.

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To Truly improve your Database Server

▪ Upgrade to MS SQL Server

- SQLBase becomes increasingly unstable at 2GB
- SQL Server performs record lock
- Better use of resources
- No client install on Windows 2000 or Windows XP
- Depth of troubleshooting/administration/Maintenance
- Recovery
- ODBC
- The Future

80 to 90% of Shop Customer in Eastern Canada are using MS SQL

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Any Questions?

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