

Task: 9. Backing up and recovery in database.
Date: 21/10/25
Perform following backup and recovery scenarios.

- a) Recovering a NOARCHIVELOG Database with incremental Backups.
- b) Resulting the Server Parameter File.
- c) Performing Recovering with a Backup Control File.

Scenario 1: Recovering a NOARCHIVELOG Database with Incremental Backups.

... Step 1: Backup Database.

Backup database [Banking] to disk = 'backup-file'

back with NOFORMAT, NOINIT, NAME = 'Full Database Backup', SKIP, REWIND, NOUNLOAD, STATES = 10.

... Step 2: Create Incremental Backup.

BACKUP DATABASE [Banking] TO DISK = 'incremental-backup-back' with Differential, NOFORMAT, NOINIT, NAME = 'Incremental Database Backup', SKIP, REWIND, NOUNLOAD, STATES = 10.

... Step 3: Simulate Data loss.

... Intentionally delete or modify data.

... Step 4: Restore Database.

Restore Database [Banking] from Disk = 'backup-file' bak' with Replace.

... Step 6: Recover Database.

Recover Database [Banking]

... Step 7: open Database.

Alter Database [Banking] SET Online.

Scenario 2: Restoring the Server Parameter File(SPFIL)

... Step 1: Backup SPFILE

backup Server Parameter File to File='spfile.bak';

... Step 2: Simulate SPFILE loss

delete or modify SPFILE

... Step 3: Restore SPFILE

STARTUP MOUNT

RESTORE SERVER PARAMETER FILE FROMFILE='spfile.bak';

SHUTDOWN

STARTUP

Scenario 3: Performing Recovery with a Backup Control File.

... Step 1: Backup Control File.

BACKUP CONTROLFILE TO FILE='controlfile.bak';

... Step 2: Simulate Control File loss

delete or modify ~~SP~~controlfile.

... Step 3: Restore control file.

Startup Mount

Restore Control File from file='controlfile.bak';

Alter Control file Reuse;

... Step 4: Recover Database.

Recover database using backup Control file;

... Step 5: open Database

Alter Database open Resetlogs;

SQL Server Commands:

→ Backup Database

→ Restore Database

→ Recover Database

→ Alter Database

→ Backup Server Parameter File.

- Restore server Parameter File
- Backup Control file
- Restore Control file.

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EX NO.	
PERFORMANCE (5)	95
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	15
SIGN WITH DATE	24/12

Result. Thus, the implementation of backing up and recovery in database was successfully executed