

# Task No: 9 Backup up and recovery in database

Date: - 11/10/25

Aim: To perform the backup and recovery scenarios

a) Recovering a noarchivelog database with incremental backups

b) Restoring the server parameter files

c) Performing Recovery with a Backup control file

Scenario 1: Recovering a noarchivelog Database with Incremental Backups.

Step 1: Backup database

Backup Database [database-name] To Disk = "backup-file.bak"  
with noformat, noinit, Name = 'Full database Backup',  
Skip, Rewind, noload, Starts = 10

Backup Database [Banking] To Disk = "backup-file.bak"

Step 2:- Create Incremental Backup

Backup Database [database-name] To Disk = "Incremental-backup.bak"  
with differential, noformat, noinit, Name = 'Incremental Database Backup', Skip, Rewind, noload, Starts = 10

BACKUP DATABASE [Banking] To Disk = "Incremental-backup.bak"

Step 3:- Simulate data loss

Intentionally delete or modify data

Step 4:- Restore database

RESTORE Database [database-name] From Disk = backup-file.bak with Replace

RESTORE database [Banking] from disk = "backup-file.bak" with Replace.

Step 5:- Apply Incremental Backup

Restore Database [database-name] from Disk = "Incremental-backup.bak" with Replace

Restore Database [Banking] From Disk = "Incremental-backup.bak"

Step 6:- Recover Database

Recover database [database-name]

Recover Database [Banking]

Step 7:- open Database

Alter Database [database-name] SET ONLINE

Alter Database [Banking] SET ONLINE

Scenario 2: Restoring the Server parameter file (SPFILE)

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 from file = 'spfile.bak';

Shutdown

Startup

Scenario: performing Recovery with a Backup Control file

Step 1:- Backup control file

Backup server Controlfile to file = 'controlfile.bak';

Step 2:- Simulate Control-file loss

Delete or modify control file

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 Controlfile;

Step 5:- open database

Alter Database open Reset logs

### SQL Server Commands

- Backup Database
- Recover Database
- Restore Database
- Alter Database
- Backup Server parameter file
- Restore Server parameter file
- Back up Control file
- Restore Control file

VELTECH	
SR NO.	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	3
RECORD (5)	15
TOTAL (20)	28
SIGN WITH DATE	

Result:- The Backup and recover in database were successfully executed.