Task 9   Backing Up and recovery In
Dt: 7/10/25   Database

Aim: To perform the backup and recovery scenarios.

a) Recovering a NDARCHIVELOG Database with Incremential Backups

b) Restoring the server Parameter file

c) Performing Recovery with a Backup Control File.

Scenario : Recovering a NOARCHIVELOG Database with Incremental Backups

Step 1 : Backup DataBase

BACKUP DATABASE [database-name] To DISK = "backup.file.back"
WITH NOFORMAT, NOTNIT, NAME - 'Full Database Backup ",
SKIP, REWIND, NOUNLOAD, STATS =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, NONINIT, NAME = 'Incremental Database
Backup', SKIP, REWIND, NOUNLOAD, STATS =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 REPL

Step 5: Apply Incremental Backup

RESTORE DATABASE [database-name] FROM DISK = 'Incremental-backup
bak' WITH REPLACE

RESTORE DATABASE [database-name] FROM. DISK = 'Incremental-backup.

bak ⊗ RESTORE DATABASE [Banking] FROM DISK = "Incremental backup.ba

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 Control file. SPFILE

Step 3: Restore SPFILE

STARTUP MOUNT
RESTORE SERVER PARAMETER FILE FROM FILE ='spfile.bak';
SHUTDOWN
STARTUP

Scenario 3: Performing Recoveries with a Backup Control file

Step 1: BACKUP Control File
BACKUP CONTROLFILE TO FILE =`Control file.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 RESETLOGS:

SQL Server Commands

- BACKUP DATABASE
- RECOVER DATABASE
- RESOTER DATABASE
- ALTER DATABASE
- BACKUP SERVER PARAMETER FILE
- RESTORE SERVER PARAMETER FILE
- BACKUP CONTROL FILE
- RESTORE CONTROL FILE

Result:

The Backup and recovery in database were successfully executed.