

Task No 9
7/12/25

Backing up and recovery in databases

Aim: To perform the backup and recovery scenarios.

a) recovering a NOARCHIVELOG Database with Incremental backups

b) restoring the server parameter file

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, NOUNLOAD, STATS = 10.

BACKUP DATABASE [Banking] TO DISK = "backup-file.bak"

Step 2: create Incremental Backup.

BACKUP DATABASE ~~[Banking]~~ [database-name] TO DISK = '
Incremental backup.bak' WITH DIFFERENTIAL, NOFORMAT,
NOINIT,

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 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 3: performing recovering 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 CONTROLFILE FROM FILE = 'control file.bak';
ALTER CONTROLFILE 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
- RESTORE DATABASE
- ALTER DATABASE
- BACKUP SERVER PARAMETER FILE
- RESTORE SERVER PARAMETER FILE
- BACKUP CONTROLFILE
- RESTORE CONTROLFILE

VELTECH	
EX No.	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	7/10/23

Result:-

the Backup and recovery in databases were successfully executed.