

07/10/2022

Task-9

Backing up and recovery in database

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

Step 2: Create Incremental Backup

BACKUP DATABASE [database-name] TO DISK = 'incremental-
backup.bak' WITH, DIFFERENTIAL, NOFORMAT, NOINIT, NAME =
'Incremental Database Backup', SKIP, REWIND, NOUNLOAD,
STATS = 10.

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

Step 5: Apply Incremental Backup

RESTORE DATABASE [database-name] FROM DISK = 'incremen-
tal-backup.bak' WITH REPLACE.

Step 6: Recover Database

RECOVER DATABASE [database-name]

Step 7: Open Database

ALTER DATABASE [database-name] SET ONLINE

Scenario 2: Restoring the server parameter file (SPFILE).

Step 1: Backup SPFILE

BACKUP SPFILE TO FILE = 'spfile.bak';

Step 2: Simulate SPFILE loss.

Delete or modify SPFILE

Step 3:- RESTORE SPFILE.

STARTUP MOUNT

RESTORE SPFILE FROM FILE =
'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 control file

Step 3:- Restore Control file

STARTUP MOUNT

RESTORE CONTROLFILE FROM FILE = 'controlfile.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
- RESTORE DATABASE
- RECOVER DATABASE
- ALTER DATABASE
- BACKUP control file.
- RESTORE control file.

VEL TECH	
EX NO.	4
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	25
SIGN WITH DATE	

Result:- Thus, ~~the~~ we learned on backing up ~~recovery~~ in database and implemented and also ~~executed~~ successfully.