

TASK-9 Backing up and recovery in database.  
8/10/25

Aim: To perform following backup and recovery scenarios.

- Recovering a NOARCHIVELOG database with Incremental Backups.
- Restoring the Server parameter file.
- performing Recovering 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, NOINT, 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, NOINT, 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 =  
'incremental-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 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 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;

8 -- Step 4 : Recover Database

RECOVER DATABASE USING BACKUP  
CONTROLFILE;

-- Step 5 : Open database

ALTER DATA BASE OPEN RESETLOGS;

SQL Server Commands;

- BACKUP DATABASE
- RESTORE DATA BASE
- RECOVER DATABASE
- ALTER DATABASE
- BACKUP SERVER PARAMETERS FILE
- RESTORE SERVER PARAMETER FILE
- BACKUP CONTROLFILE
- RESTORE CONTROLFILE

VEL TECH	
EX NO.	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
DATE WITH DATE	

Result: Thus, the implementation of ~~of~~ <sup>A</sup> / ~~N~~ / <sup>m</sup> in  
Backing up and recovery in  
database has been successfully  
executed.