

Task-9 Backing up and recovery in databases

AIM :- To perform following backup and recovery scenarios -

- Recovering a NOARCHIVELOG Database with Incremental Backups.
- Restoring the Server parameter file.
- 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
```

-- Step 2 : Create Incremental Backup

```
BACKUP DATABASE [database_name] TO DISK =  
    'incremental-backup.bak' WITH DIFFERENTIAL,  
    NOFORMAT, NOINIT, NAME = 'Incremental Database  
    Backup', SKIP,
```

-- Step 3 : Stimulate 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 Control file.

* 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

-- 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 SERVER PARAMETER FILE
- BACKUP CONTROLFILE
- RESTORE CONTROLFILE

VEL TECH	
PERFORMANCE (5)	9
RESULT AND ANALYSIS (5)	3
VIVA VOCE (5)	6
RECORD (5)	5
TOTAL (20)	20
SIGNATURE DATE	✓/09

RESULT :- Thus, the performing of backup and recovery scenarios has been executed and implemented successfully.