

21/10/25
Task 9: Backing up and recovery in database
Aim: To implement the backing up and recovery in database

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.bak' WITH DIFFERENTIAL, NOFOR-  
MAT, NOINIT, NAME = 'Incremental Database  
Backup', SKIP, 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 NOFORMAT
```

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;

Step 4: Recover Database


RECOVER DATABASE USING BACKUP CONTROLFILE;

steps: open databax .

ALTER DATABASE OPEN REST LOGS;

SQL server Commands :

- BACKUP DATABASE
- RESTORE DATABASE
- RECOVER DATABASE
- ALTER DATABASE
- BACKUP SERVER PARAMETER 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) | 20 |
| SIGN WITH DATE |  2/6/20 |

Result: The implementation of backing up and recovery in database has been executed successfully.