Task 9: Backing up and recovery in databases.

To demonstrate how to backup and restore a NOARCHIVELOG database using full and incremental backups, and recover data after a data loss incident in the college slot booking database.

Scenario 1: Recovering a NOARCHIVELOG database with incremental backups.

S-1: Backup database.

Backup database college slot booking
To disk = `college slot booking_Full backup.bak`
with Noformat, NO init, Name = `Full database backup`, skip, rewind, nounload, stats = 10;

S-2: Create Incremental Backup

Backup database College slot booking
To disk = `College slot booking_Incremental backup.bak`
with differential, No format, No init, Name = `Incremental database backup`, skip, rewind, nounload, stats = 10;

5-3: Simulate data loss
- Intentionally delete or modify data.

5-4: Restore Database
Restore database college slot booking from
disk = `backup. file bak` with replace.

5-5: - Apply Incremental backup
Restore database college slot booking
from disk = `incremental - backup.bak`
with replace.

5-6: Recover database
Recover database college slot booking

5-7: Open database
Alter database college slot booking
set Online

Scenario 2: Restoring the server parameter
file (SPFILE)

5-1: Backup SPFILE
Backup server parameter file to file =
`sp file.bak`;

5-2: Simulate SPFILE loss
- Delete or modify SPFILE

5-3: Restore SPFILE

Startup Mount

Restore server parameter file from file = `spfile.bak`;

shutdown

startup

Scenario 3: Performing recovery with a backup control file.

5-1: Backup control File

Backup controlfile to file = `controlfile.bak`;

5-2: Simulate control file loss

Delete or modify control file.

5-3: Restore control File

Startup Mount

Restore Controlfile from file = `controlfil.bak`;

Alter Controlfile Reuse;

5-4: Recover Database

Alter Database Open Resetlogs;

SQL server commands

- Backup database
- Restore database
- Recover database
- Alter Database
- Backup server parameter file
- Restore server parameter file

- Backup ControlFile
- Restore ControlFile

Result : Thus, performing backup & recovery scenario has been executed & implemented successfully