

Task-9

Backing up and recovery in databases

Perform following bank UD and recovery scenarios -
a) Recovering a NOLAN Rerecvents Database with Incremental

a) Recovering a NOLAN Rerecvents Database with Incremental
Back UPS.

b) Restoring the Server Parameter File.
Scenario:- Recovering a NOLOG CHIEV LOG Database with
Incremental Backups

--- step 1:- Back up Database

BACKUP DATABASE [database-name] TO DISK = 'back-up-file-
bak' WITH NO FOR MOVE NAME,
NAME = 'FULL' Database Back up! SKIP, result
Now NLOAD, STATS = 10

step 2:- Simulate Data Loss
--- Intentionally delete or modify data

step 3:- Restore Database

Restore DATABASE [database-name] FROM DISK
[back-up-file-bak] WITH REPLACE

step 4:- Apply Incremental Backup

RESTORE DATABASE [database-name] FROM
Disk = 'incremental-backup-bak' WITH REPLACE

step 5:- Recover Database

Recover DATABASE [database-name]

step 6:- Open Database

ALTER DATABASE [database-name]

SET ONLINE

Scenario:- Restoring the server parameter file
(SPFILE)

--- step 1:- Back up SPFILE

BACKUP SERVER PARAMETER FILE TO FILE
(spfile-bak)

--- step 2:- simulate SPFILE LOSS
--- Delete or modify SPFILE

- Employee (Employee_ID, Name, Department_ID, Job_Title, Hire_Date, Salary) ↗
- Department (Department_ID, Manager_ID) ↗
- Manager (Manager_ID, Name)

- $\text{Employee_ID} \rightarrow \text{Name, Department, Job_Title, Manager_ID, Hire_Date, Salary}$
(The Employee's ID determines all other attributes).
- $\text{Department} \rightarrow \text{Manager_ID}$ (The department determines the manager's ID).
- $\text{Manager_ID} \rightarrow \text{Name}$ (The manager's ID determines the manager's name).

--- step 3 :- Restore SPFILE

STARTUP MOUNT

RESTORE SERVER PARAMETER FILE = 'SPFILE-BAK';

SHUTDOWN

STAR TOP

Scenario 3: performing Recovery with a Back up control file.

--- step 1 :- Back up 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 MOONT

RESTORS CONTROLFILE Control File = 1
Controlfile.bak;

ALTER CONTROL FILE 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.

- RESTORE DATABASE.

- ALTER DATABASE.

- BACKUP SERVER PARAMETER FILE.

- RESTORE SERVER PARAMETER FILE

- BACKUP CONTROLFILE.

- RESTORE CONTROLFILE

EX NO.	
PERFORMANCE (5)	5
RESULT AND ANALYSIS (6)	5
VIVA VOCE (5)	5
PROJECT (5)	5
TOTAL (20)	20

d/16/10/26

Results :- Thus, the backing up and recovery in databases executed and verified output successfully.