

Task-9

Backing up and recovery in databases

Perform following back up and recovery scenarios.

a) Recovering a N/A Recovered Database with Incremental Backups.

bs Restoring the server parameter file.

Scenario 1:- Recovering a N/A CHIVE LOG Database with Incremental Backups

--- step 1:- Back up Database

BACKUP DATABASE (database_name) TO Disk = (back-file-bak' with NO FOR MAZ NO LUT,

NAME = 'FULL Database Back up! SKIP, Result

NOW NLOAD, STATS=10

step 2:- simulate Database

--- 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-bak1 with REPLACE

step 5:- Recover Database

Recover DATABASE [database_name]

step 6:- open Database

ALTER DATABASE (database_name)

SET ONLINE

Scenario 2:- Restoring the server parameter file
(SP FILE)

--- 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)

- $\text{Employee_ID} \rightarrow \text{Name}, \text{Department}, \text{Job_Title}, \text{Manager_ID}, \text{Hire_Date}, \text{Salary}$
(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

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 Control File = 1
Controlfile.bak;

ALTER CONTROLFILE 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.

EXCEL TECH CSE	
EX NO.	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
PROJECT (5)	5
TOTAL (20)	20
DATE	16/10/25

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