

Task-9 Backing up and recovery in database

7/10/25

Aim:- To perform following backup and recovery

- 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, NOINT, NAME = 'Full Database Backup', SKIP, REWIND, NOLOAD, STATS = 10

--- STEP 2:- Create Incremental Backup

BACKUP DATABASE [database_name] TO DISK = 'Incremental backup.bak' WITH DIFFERENTIAL, NOFORMAT, NOINT, NAME = 'incremental database Backup', SKIP, REWIND, NOLOAD, 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 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

--- Step 1: Backup SPFILE

BACKUP SERVER PARAMETER FILE TO FILE =
'spfile.bck';

--- Step 2: Simulate SP FILE LOSS

--- Delete or modify SPFILE

Step 3: Restore SP FILE

STARTUP MOUNT

RESTORE SERVER PARAMETER FILE FROM FILE =
'spfile.bck';

SHUT DOWN

STARTUP

Scenario 3: Performing Recovery with a Backup control File

--- Step 1: Backup Control File

BACKUP CONTROLFILE TO FILE = 'Control file.bck';

--- Step 2: Simulate Control File Loss

--- Delete or modify control file

--- Step 3: Restore control file

STARTUP MOUNT

RESTORE CONTROL FILE FROM FILE = 'Control file.bck';

ALTER CONTROLFILE REUSE;

--- Step 4: Recover Database

RECOVER DATABASE USING BACKUP CONTROL FILE;

--- Step 5: Open database

ALTER DATABASE OPEN RESETLOGS;

SQL Server Commands;

— BACKUP DATABASE

— RESTORE DATABASE

— RECOVER DATABASE

— ALTER DATABASE

- BACKUP SERVER PARAMETERS FILE
- BACKUP CONTROLFILE
- RESTORE CONTROLFILE

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EX NO.	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	15
SIGN WITH DATE	

Result: Thus, the implementation of Backing up and recovery in database has been successfully executed.