

Task No: 9
Date: 7/10/25

Booking up and recovery in
databases.

Aim: To perform the backup and recovery scenarios.

- a) Recovering a NOARCHIVELOG Database with Incremental backup.
- b) Restoring the server parameter file.
- a) Performing recovery with a backup control file.

Scenario 1: Recovering a NOARCHIVELOG Database with incremental backups.

Step 1: Back up Database.

BACKUP DATABASE [database-name] TO DISK = "backup-file.bak" WITH NOFORMAT, NOTNIT, NAME = 'Full Database Backup'.

SKIP, REWIND, NOUNLOAD, STATS = 10.

BACKUP DATABASE [Banking] TO DISK = "backup-file.bak"

Step 2: Create Incremental Backup.

BACKUP DATABASE [database-name] TO DISK = 'Incremental-backup.bak' with Differential, NOFORMAT, NOTNIT, NAME = 'Incremental Database Backup', SKIP, REWIND, NOUNLOAD, STATS = 10

BACKUP DATABASE [Banking] TO DISK = 'Incremental-backup.bak'

Step 3: Simulate Database.

Intentionally delete or modify data.

Step 4: Restore Database

RESTORE DATABASE [database-name] FROM DISK = 'backup-file.bak' WITH REPLACE

RESTORE DATABASE [Banking] FROM DISK = 'backup-file.bak' WITH REPLACE

Step 5: Apply Incremental Backup

RESTORE DATABASE [database-name] FROM DISK = 'Incremental-backup.bak' WITH REPLACE

RESTORE DATABASE [Banking] FROM DISK = 'Incremental-backup.bak'

Step 6: Recover Database

RECOVER DATABASE [data-name]

RECOVER DATABASE [Banking]

Step 7: open Database

ALTER DATABASE (database-name) SET ONLINE

ALTER DATABASE (Banking) SET ONLINE.

Scenario 2: 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 control file, SPFILE.

Step 3: Restore SPFILE

STARTUP MOUNT

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

SHUTDOWN

STARTUP

Scenarios: Performing Recovering with a Backup 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 MOUNT

RESTORE CONTROLFILE FROM FILE = '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
- RECOVER DATABASE
- RESTORE DATABASE
- ALTER DATABASE
- BACKUP SERVER PARAMETER FILE
- RESTORE SERVER PARAMETER FILE
- BACKUP CONTROLFILE
- RESTORE CONTROLFILE.

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EX NO.	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	4
RECORD (5)	15
TOTAL (20)	40
DATE	16/10

Result: The Backup and recovery in Databases were successfully executed.