Task-9 : Backing up and recovery in databases.
Date: 7/10/25

Perform following backup and recovery scenarios.

a) Recovering a NOARCHIVELog Database with Incremental Backups.

b) Restoring the server parameter File.

c) Performing Recovery with a Backup control file

Scenario-1 : Recovering a NOARCHIEVELOG Database with Incremental Backups.

Step-1: Backup Database.

BACKUP DATABASE [Banking] TO DISK= 'backup-file.back' WITH NOFORMAT, NOINT, NAME= 'Full Database Backup', SKIP, REWIND, NOUNLOAD, STATS = 10.

Step-2: create Incremental Backup.

BACKUP DATABASE [Banking] TO DISK = 'Incremental-backup.bak' WITH DIFFERENTIAL, NOFORMAT, NOINT, NAME= 'Incremental Database Backup', SKIP, REWIND, NOUNLOAD, STATS =10.

Step-3: simulate Data Loss.

Intentionally delete or modify data.

Step-4: Restore Database.

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

Step-5: Apply Incremental Backup.

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

Step-6: Recover Database.

RECOVER DATABASE [Banking]

Step-7: open Database

ALTER DATABASE [Banking] SET ONLINE.

Scenario-2 : Restoring the server Parameter File (SPFILE)

Step-1: Backup SPFILE

BACKUP SERVER PARAMETER FILE TO FILE = 'spfile.bak'

Step-2: simulate SPFILE loss

Delete or modify SPFILE.

Step-3: Restore SPFILE.

STARTUP MOUNT

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

SHUTDOWN

STARTUP.

Scenario-3 : Performing Recovery with a Backup Controlfile.

Step-1: Backup Controlfile

BACKUP CONTROLFILE TO FILE = 'controlfile.bak';

Step-2: simulate Controlfile loss.

Delete or modify. controlfile.

Step-3: Restore control file

STARTUP. MOUNT

RESTORE CONTROLFILE FROM FILE = 'control file.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.

- RECOVER DATABASE
- ALTER DATABASE
- BACKUP SERVER PARAMETER FILE
- RESTORE SERVER PARAMETER FILE
- BACKUP CONTROL FILE
- RESTORE CONTROL FILE

VEL TECH - USE	
EX NO.	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	5
VIVA VOCE (3)	5
RECORD (4)	5
TOTAL (15)	15
SIGN WITH DATE	15/10

Result: Thus, The Implementation of Backing up and Recording in Database was successfully executed.