Task 2: Backing up and recovery if databases
10/9/23

Perform following backup and recovery scenarios

a) Recovering a NOARCHIVELOG database with Incremental Backups

b) Restoring the Server parameter 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 NO INIT
NAME= 'Full Database Backup' SKIP, REWIND
, NOUNLOAD, STATS=10

Step2: Simulate Data Loss
- - Intentionally delete or modify data

Step3: - Restore Database
RESTORE DATABASE [database_name] FROM DISK:
'backup-file.bak' WITH REPLACE

Step4: Apply Incremental Backup
RESTORE DATABASE [database_name] FROM
DISK='Incremental-backup.bak' WITH REPLACE

Step5: - Recover Database
RECOVER DATABASE [database_name]

- Step 6 - Open Database
ALTER DATABASE [database_name]
SET ONLINE
                        the server parameter
Scenario2: Restoring
File (SPFILE)

... step 1: Back up SPFILE

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

... step 2: Simulate SPFILE Loss
-- Delete or Modify SPFILE

- step 3: Restore SPFILE

S TARTUP MOUNT

RESTORE SERVER PARAMETER FILE :
   'spfile.bak';

SHUT DOWN
STARTUP

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 MOUNT;
RESTORE CONTROLFILE FROM FILE='
               controlfile.bak';

   ALTER CONTROL FILE REUSE;

.... step 4: Recover Database

RECOVER DATA BASE USING BACKUP
CONTROLFILE;
steps: Open Database

ALTER DATABASE OPEN RESETLOGS

SQL Server Commands

- BACKUP DATABASE

  - RESTORE DATEBASE

  - RSCOVER DATABASE

    - ALTER DATA BASE

- BACKUP SERVER PARAMETER FILE

- RESTORE SERVER PARAMETER FILE

- BACKUP CONTROLFILE

- RESTORE CONTROLFILE