

7/10/25

Task No 9

Backing up and recovery in databases.

Aim:- Backing up and recovery in databases.

Perform following backup and recovery scenarios.

- Recovering a NOARCHIVELOG database with incremental backups.
- Restoring the server parameter file.
- Performing recovery with a backup control file.

scenario:- Recovering a NOARCHIVELOG database with incremental backups.

Step 1:- Backup database.

~~Backup database [mobile-phone] To disk = 'backup\mobile phone-file.bak' with NOFORMAT, NOINIT, Name 'full database backup'; skip, remind, Nownload, stats=10.~~

Step 2:- Create incremental backup.

~~Backup database [mobile-phone] To disk = "I:\DB-backups\mobilephone.bak" with DIFFERENTIAL, NOFORMAT, NOINIT, NAME='incremental database backup'; skip, -IT, Rewind, Nownload, stats =10.~~

Step 3:- Simulate data loss.

Intentionally delete or modify data.

Step 4:- Restore database backup.

~~Restore database mobile phone, from disk = 'D:\DB-backups/mobile-phone-file.bak' with replace, stats = '0'~~

Step 5:- Apply incremental backup.

~~Restore database [mobile-phone] from disk = 'backup-file.bak' with replace.~~

Step 6 :- Recover Database

Recover Database [mobile - phone]

Step 7 :- Open Database

Alter Database [mobile, phone] set online.

Scenario 2 : Restoring the server parameter file (SP File).

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 control file.

Step 1 :- Backup control file

Backup control file to file = 'control file.bak';

Step 2 :- Simulate control file loss.

Delete or modify control file.

Step 3 :- Restore control file.

startup mount

Restore control file from file = '~~control~~ control file.bak';

Alter control file reverse:

Step 4 :- Recover database.

Recover database using ~~the~~ backup controlfile;

Step 5 :- Open database

Alter Database open reset logs.

SQL server commands :-

- ⇒ Backup Database.
- ⇒ Restor Database
- ⇒ Recover Database.
- ⇒ Alter Database.
- ⇒ Back server control file.
- ⇒ Restore control file.

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Result :-

Thus, ~~I have learned~~ on backing up recovery in ~~database~~ and implemented and also ~~executed~~ successfully.