DATE: 6/10/25

TASK 9: Backing up and Recovery in collage management system datebase

AIM To backing up and Recovery to college Management system database.

college Management database.

Scenario1: Recovering a Noarchivelog database with Incremental backups.

Step 1: Backup collage management database.

SQL:

BACKUP DATABASE [collage - Management_DB]
ID DISK = 'c':\ Backups \ collage DB—full.bak'
WITH NOFORMAT. NUTNTI,
NAME = 'Full collage Management Database
            Backup"
SKIP, REWIND, NOUNLOAD, STATB =10;

Step2: Create Incremental Backup

BACK UP DATABASE [collage -Management_DB]
TO DISK = 'C:\ Backups\ collage DB_Icremental.bak)
WITH DIFFERENTIAL, NOFORMAT, NOTNIT.
NAME : 'Incremental collage magenement
            Database Backup',
SKIP, REWIND, NOUNLOAD, STATUS =10;

Step3: Simulate Data loss

DELETE FROM students WHERE Department_ID='CSE';

Step4: Restore full Backup

RESTORE DATABASE [collage_Management_DB]
FROM DISK = 'C:\Backups\collageDB_full.bak';
WITH REPLACE;

Step5: Apply Increment Backup

RESTORE DATABASE (college-Management-DB)
FROM DISK = 'C:\Backups\collage DB-Incremental bak
WITH REPLACE;

Step6: Recover database

RECOVER DATABASE (college_Management_DB);

Step7: Bring Database online.

ALTER DATABASE [college_Management_DB] SET ONLINE;

2: Restoring The server parameter file

Step1: Backup SPFILE

BACKUP SERVER PARAMETER FILE TO FILE = 'C:\
Backups\college DB_SPFILE.bak';

Step 2: Simulate SPFILE Loss

Step3: Restore SPLIFE

STARTUP MOUNT;

RESTORE SERVER PARAMETER. FILE FROM FILE=
'C:\Backups\collage DB-SPFILE.bak';

SHUT DOWN

STARTUP;

Scenario 3: performing Recovery with a Backup control file

Step 1: Backup control file

Backup CONTROFILE TO FILE = 'C:\Backyps\collage BB - control File.bak';

AlTER . CONTROLFILE REUSE;

Step 2: Simulate control file

Step 3: Restore control file.

STARTUP MOUNT;

RESTORE CONTROLFILE FROM. FILE='C:\Back ypss\ collage.DB _ controlfile -bak';

ALTER CONTROLFILE REUSE;

Step 4: RECOVER dababase.

RECOVER DATABASE USING BACKUP. CONTROLFILE;

Step 5; Open Database

ALTER DATABASE REUSE OPEN RESETLONS;

Result: Thus the college management System database. is fully recovered using a backyp control file exicated successfully