

# Task 9: Backing up and Recovery in data base.

Date: 06/10/25

Aim:

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

Scenario : Recovering a Noarchivelog database with Incremental backups.

Step 1: Backup college management database

SQL:

BACKUP DATABASE [College - Management DB]

TO DISK = 'C:\Backups\college DB-full.bak'  
WITH NO FORMAT NOT NIT.

NAME = "FULL COLLEGE -Management  
database Backup"

SKIP,REWIND, NOUNLOAD, STATS=10;

Step 2: Create Incremental Backup

Backup DATABASE [College - Management]

TO DISK = 'C:\Backups\college DB-Incremental  
bak')

WITH DIFFERENTIAL, NO FORMAT,

NAME: 'Incremental College Management  
Database Backup'; NOTNIT,

Step 3: Simulate Data Loss

DELETE FROM Students WHERE Department = 'CSE' AND ID = 'CSF'

Step 4: Restore full Backup

RESTORE DATABASE College-Management  
FROM DISK = 'C:\Backups\collegeB-full.bak';

WITH REPLACE;

Step 5: Apply Increment Backup

RESTORE DATABASE College-Management  
FROM DISK = 'C:\Backups\collegeB-incr.bak';

Step 6: Bring Database online.

ALTER DATABASE College-management DB  
SET ONLINE;

2. Restoring the server parameter

Step 1: Backup SPFILE

Backup SERVER PARAMETER FILE TO  
FILE 'C:\Backups\college BD - SPfile.bak';

Step 2: Simulate Split -

SHUTDOWN NOWAIT

RESTORE SERVER PARAMETER FILE  
FROM FILE:

'C:\Backups\college DB - kd';

SHUTDOWN

STARTUP

Scenario 3: performing Recovery with a Backup control file

Step 1: Backup ~~and~~ control file

Backup .controlfile = ~~DOES~~ REUSE:

Step 2: simulate control file.

STARTUP MOUNT;

RESTORE CONTROLFILE FROM FILE  $\Sigma$ ,

~~selected~~ 4ps / college DB-controlfile  
-back;

Step 3: Recover DATABASE

RECOVER DATABASE USING BACKUP  
control.

Steps: DATAFILE USING BACKUP  
CONTROLFILE.

VELTECH	
EX No.	9
PERFORMANCE (5)	8
RESULT AND ANALYSIS (5)	3
VIVA VOCE (5)	8
RECORD (5)	8
TOTAL (20)	16
IN WITH DATE: $\Sigma$	

Result:

Thus the college management system database is fully recovered using a database backup and its control is used fully.