

6/10/25 Task 9:- Backing up and Recovery In
college Management system database

Aim:- To Backing up and Recovery to college
management system database.

college management database

Scenario 1:- Recovering a Noarchive log 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 NOFORMAT, NOTMET,

NAME = 'FULL college management Database Backup'

STEP 2:- create Incremental Backup.

BACKUP DATABASE [college-management-db]

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

WITH DIFFERENTIAL, NOFORMAT, NOTINIT,

NAME = 'Incremental college-management-

Database Backup

STEP 3:- simulate Data loss.

DELETE FROM Students WHERE Department = 'CS'

;

STEP 4:- Restore full Backup.

RESTORE DATABASE [college-management-db]

FROM DISK = 'C:\Backups\college DB - full.bak'

WITH REPLACE;

Step 5: Apply Increment Backup

```
RESTORE DATABASE [College-Management-DB],  
FROM DISK = 'C:\Backups\College DB-Increment',  
WITH REPLACE;
```

Step 6: Bring Database online.

```
ALTER DATABASE [College-Management-DB];
```

Scenario 2: Restoring the server Parameter file.

Step 1: Backup SPFILE

```
BACKUP SERVER PARAMETER FILE TO DISK  
BACKUPS\CollegeDB-SPFILE.bac;
```

Step 2: Simulate SPFILE loss.

Step 3: Restore SPFILE

STARTUP MOUNT;

```
RESTORE SPFILE FROM  
FILE = 'C:\Backups\CollegeDB-SPFILE.bac';
```

SHUTDOWN;

STARTUP;

Scenario 3:- Performing Recovery with a Backup control file.

STEP 1:- BACKUP control file.

BACKUP .CONTROLFILE TO FILE = 'C:\Backup\college DB - control file.bak';

STEP 2:- simulate control file loss.

STEP 3:- RESTORE control file.

STARTUP MOUNT;

RESTORE CONTROLFILE

STEP 5:- Open Database.

ALTER DATABASE OPEN RESETLOGS;

VEL TECH	
EX No.	9
PERFORMANCE (3)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
CORR (5)	5
TOTAL (23)	15
SIGN WITH DATE	

Result:- Thus, the college management system database is fully recovered using a backup control file executed successfully.