

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 Nonarchiving 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, NOTEMP,

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, NOINIT,

NAME = 'Incremental college - management.

Database Backup.

Step 3:- Simulate Data loss.

DELETE FROM Students WHERE Department_ID

= 'CSE';

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_08];

FROM DISK = 'C:\Backups\College DB.University.

WITH RECOVERY;

STEP 6:- Open Database - online,

ALTER DATABASE [College_Management_08];

Scenario 2 :- Restoring the server parameter file.

Step 1:- Backup SPFILE

Backup SERVER PARAMETER FILE TO DISK;

Backup [CollegeDB - SPFILE.bak];

Step 2:- Simulate SPFILE loss.

Step 3:- Restore SPFILE

Startup Mount;

Restore RECOVER PARAMETER FILE FROM

FILE = 'C:\Backups\College DB - SPFILE.bak';

SHUTDOWN;

STARTUP;

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

STEP1:- BACKUP control file

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

STEP2:- simulate control file loss.

STEP3:- RESTORE control file.

STARTUP MOUNT;

RESTORE CONTROLFILE

STEP5:- Open Database.

ALTER DATABASE OPEN RESETLOGS;

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SIGN WITH DATE	20/04/2018

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