

9.	06/10/25	Backing up and recovery in college management system database	18	<del>06/10/25</del>
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## 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 No archive log database with Incremental Backups

Step-1: Backup college management database

Backup database [College - Management - DB]

TO DISK = 'C:\Backups\College DB - full.bak'

WITH NO FORMAT, NO INIT,

NAME = 'FULL COLLEGE Management Database Backup',

SKIP, REWIND, NOUNLOAD, STATS = 100;

Step-2: Create Incremental Backup

BACKUP DATABASE [College - Management - DB].

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

WITH DIFFERENTIAL, NO FORMAT, NO INIT,

NAME = 'Incremental college management database backup',

SKIP, REWIND, NOUNLOAD, STATS = 10;

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 - DB].

FROM DISK = 'C:\Backups\College DB - Incremental.bak'

WITH REPLACE;



Step-6: Recover Database

RECOVER DATABASE [College - Management - DB];

Step-7: Bring Database online.

ALTER DATABASE [College - Management - DB] SET ONLINE

Scenario - 2: Restoring the server parameter file.

Step-1: Backup SPFILE

BACKUP SERVER, PARAMETER FILE TO FILE = 'C:\Backups\College DB - SPFILE.bak';

Step-2: Simulate SPFILE Loss

Step-3: Restore SPFILE

STARTUP MOUNT;

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

SHUTDOWN;

STARTUP;

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

Step-1: Backup Control file

Backup CONTROL FILE TO FILE = 'C:\Backups\College DB - Control file.bak';

Step-2: Simulate Control file loss

Step-3: Restore Control file

STARTUP Mount;

RESTORE CONTROL FILE FROM FILE = 'C:\Backups\College DB - Control file.bak';

ALTER CONTROL FILE REUSE;

Step-4: RECOVER database

RECOVER DATABASE USING BACKUP CONTROL FILE;

Step-5: Open Database

ALTER DATABASE OPEN RESETLOGS;

VEL TECH - CSE	
EX NO.	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	6/10/23

Result:-

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