

Task 9: - Backing up and recovery on database

To demonstrate how to backup and restore a NOARCHIVELOG database using full and incremental backup and recover data after a data loss indicate in the college slot booking database.

Scenario 1: - Recovering a NOARCHIVELOG database with incremental backup.

S-1: - Backup database

Backup database ^{college} slot booking.

To disk = "college slot booking - full backup.bak".

with NOFORMAT, NOINIT, Name = 'full database backup', skip, ~~nomount~~, rewind, noopen load, stats = 10;

S-2: - Create Incremental Backup.

Backup database college slot booking.

To disk = "college slot booking : Incremental backup.bak".

with differential, NOFORMAT, NO LIMIT,

Name = 'Incremental Database Backup', skip, rewind, NOOPEN LOAD, stats = 10

S-3: Simulate Data Loss

Intentionally delete or modify data.

S-4: Restore Database

Restore database college slot booking from .

disk = 'backup - file .bak' with replace.

S-5: Apply Increment Backup.

Restore Database [database - name] from

Disk = 'incremental - backup .bak' with replace.

Step ⑥ :- Recover database.

Recover Database [database_name]

Step ⑦ :- open Database

Alter Database [database_name] SET
online.

Scenario 2 : Resorting the server parameter
file (SPFILE).

Step 1: Backup SPFILE

Backup Server Parameter file to file =
'spfile.bak';

Step 2: Simulate SPFILE loss.

Delete or modify SPFILE.

Step 3: Restore SPFILE

startup mount

Restore server parameter file from file
= 'spfile.bak';

shutdown

startup.

Scenario 3: performing Recovery with a
Backup control file.

- Step ① :- Backup control file.

Backup control file to file = 'control file.
bak';

- Step ② :- Simulate control file loss

- Delete or modify control file.

- Step ③ :- Restore control file

startup mount

Restore control file from file = 'control
file.bak';

Alter control file Reuse;

- Step ④ :- Recover Database.

Recover Database using Backup
control file

- Step ⑤ :- open database.

Alter database open Reset logs;

SQL server commands:-

- BACKUP DATABASE
- RESTORE DATABASE
- RECOVER DATABASE
- ALTER DATABASE
- BACKUP SERVER PARAMETER FILE
- RESTORE SERVER PARAMETER FILE
- BACKUP CONTROL FILE
- RESTORE CONTROL FILE

VEL TECH CSE	
EX NO	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	4
RECORD (5)	14
TOTAL (20)	38
SIGN WITH DATE	18/02

VEL TECH	
EX No.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (3)	
VIVA VOCE (3)	
RECORD (4)	
TOTAL (15)	
SIGN WITH DATE	

Result:-

The database was successfully backed up and restored using RMAN.