

6/10/25

Task-9 Backing up and Recovery in College management system database

Aim:

To backing up and recovery to Hospital management database

Scenario 1: Recovering a NOARCHIVELOG Hospital database with increment Back-ups

• Step 1: Back up Hospital Database:

```
BACKUP DATABASE hospital - database  
TO DISK = 'hospital - backup - full . bak'  
WITH NOFORMAT, NOINIT, NAME = 'FULL  
Hospital Database Backup', SKIP, REWIND,  
NOUNLOAD, STATS = 10;
```

• Step 2: Create Incremental Backup:

```
BACKUP DATABASE hospital - database  
TO DISK = 'hospital - Incremental - Backup . bak'  
WITH DIFFERENTIAL, NOFORMAT, NOINIT  
NAME = 'Incremental Hospital Backup', SKIP,  
REWIND, NOUNLOAD, STATS = 10;
```

• Step 3: Stimulate Data loss

• Delete or modify patient or doctor records intentionally

• Step 4: Restore Database

```
RESTORE DATABASE hospital - database  
FROM DISK = 'hospital - backup - full . bak'  
WITH REPLACE;
```

• Step 5: Apply Incremental Backup

```
RESTORE DATABASE hospital - database  
FROM DISK = 'hospital - incremental - backup . bak'  
WITH  
REPLACE;
```

- Step 6: Recover database
RECOVER DATABASE hospital - database;
- Step 7: Open database
ALTER DATABASE hospital - database
SET
ONLINE;

Scenario 2: Restoring the server parameter FILE (SPFILE)

- Step 1: Backup SPFILE
BACKUP SERVER PARAMETER FILE TO FILE =
'hospital - spfile .bak';
- Step 2: Simulate SPFILE LOSS
• delete or modify hospital server
parameter file.
- Step 3: Restore SPFILE
STARTUP MOUNT;
RESTORE SERVER PARAMETER FILE FROM
FILE =
'hospital - spfile .bak';

SHUTDOWN;

STARTUP;

Scenario 3: Performing Recovery with a Backup control file

- Step 1: Backup control FILE
BACKUP CONTROLFILE TO FILE =
'hospital - control file .bak';
- Step 2: Simulate control file Loss
• delete or modify control file
- Step 3: Restore control file

STARTUP MOUNT;

RESTORE CONTROLFILE FROM FILE =

'hospital - control file .bak';

ALTER CONTROLFILE REUSE;


• step 4 : Recover database

RECOVER DATABASE USING BACKUP

CONTROLFILE;

• step 5 : open database

ALTER DATABASE OPEN RESETLOGS;

VELTECH	
EX No.	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	15
SIGN WITH DATE	

Result:

The Hospital Database was successfully backed up, restored and recovered using incremental backups and control file