

Task-9: Backing up and recovery in databases
Perform following backup and recovery Scenarios.

Scenario 1: Recovery a NOARCHIVELOG Database with Incremental backups.

Step 1: Backup Database

BACKUP DATA BASE TO DISK = 'backup_title.bck' WITH
NO FORMAT, NO INIT, NAME = 'FULL Database BACKUP',
SKIP, REWIND, NOUNLOAD, STATS = 10.

Step-2: Create incremental backup

BACKUP DATABASE TO DISK = 'increment-backup-base'
WITH DIFFERENTIAL, NO FORMAT, NOTINIT, NAME =
'Incremental Database Backups', SKIP, ROLLBACK,
NUWNLOAD, STABs = 10

- Step 3: Simulate Data Loss

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- ~~Increment~~ Intentionally delete or modify data.

- Step 4: Restore Database

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RESTORE DATABASE [database_name] FROM DISK='backup_file.bac' WITH REPLACE

Step 5: Apply Incremental Backup

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RESTORE DATABASE [database_name] FROM DISK =

RESUME 'increment-backup.bak' WITH REPLACE

Step 6: Recover Data base

Step 6: Recover DataBase [database-name]

Step 7: open database

ALTER DATABASE [database-name] SET ONLINE

- **Employee** (Employee_ID, Name, Department_ID, Job_Title, Hire_Date, Salary) ↗
- **Department** (Department_ID, Manager_ID) ↗
- **Manager** (Manager_ID, Name)

Scenario-2: Restoring the Server Parameter file

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: Restore Control File

STARTUP MOUNT

RESTORE SERVER PARAMETER FILE FROM FILE = 'spfile.bak';

SHUTDOWN

STARTUP

Step 4: Recover Database

RECOVER DATABASE USING BACKUP CONTROL FILE;

Step 5: Open Database

ALTER DATABASE USING BACKUP CONTROLFILE;

SQL Server Commands:

- BACKUP DATABASE

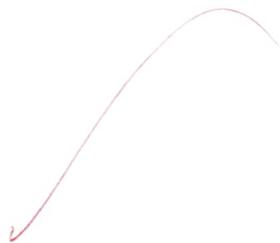
- RESTORE DATABASE

- RECOVER DATABASE

- ALTER DATABASE

- $\text{Employee_ID} \rightarrow \text{Name, Department, Job_Title, Manager_ID, Hire_Date, Salary}$ (The Employee's ID determines all other attributes).
- $\text{Department} \rightarrow \text{Manager_ID}$ (The department determines the manager's ID).
- $\text{Manager_ID} \rightarrow \text{Name}$ (The manager's ID determines the manager's name).

- BACKUP SERVER PARAMETER FILE
- RESTORE SERVER PARAMETER FILE
- BACKUP CONTROL FILE
- RESTORE CONTROL FILE



Results Thus, the backing up and recovery in databases executed and verified output successfully.

VEL TECH - CSE	
EX NO	9
PERIOD	5
RESULT	5
VIVA VOICE	5
REC	5
TOTAL (O/P)	20
SIGN WITH DATE	8/2/2014

total 20