

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

Scenario 1: Recovery a NOARCHIVELOG Data base with incremental backups.

Step 1: Backup Database

BACKUP DATABASE TO DISK = 'backup_title.bak' with
NO FORMAT, NO INT, NAME = 'FULL Database BACKUP',
SKIP, REWIND, NOUNLOAD, STATS = 10.

Step-2: Create incremental backup

BACKUP DATABASE TO DISK = 'increment_backup.bak'
WITH DIFFERENTIAL, NO FORMAT, NO INIT, NAME =
'Incremental Database Backups', SKIP, REWIND,
NOUNLOAD, stats = 10

- Step 3: Simulate Data loss

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

- Step 4: Restore Database

RESTORE DATABASE [database_name] FROM DISK = 'backup-
file.bak' WITH REPLACE

Step 5: Apply Incremental Backup

RESTORE DATABASE [database_name] FROM DISK =
'increment_backup.bak', WITH REPLACE

Step 6: Recover Data base

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';

SHUT DOWN

STARTUP

Scenario 3: Restore Control File.

STARTUP MOUNT

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

SHUT DOWN

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

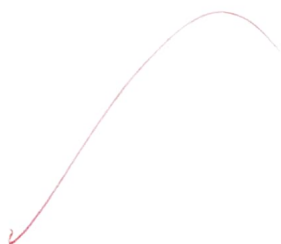
- RESTORE DATABASE

- RECOVER DATABASE

- ALTER DATABASE

- $\text{Employee_ID} \rightarrow \text{Name}, \text{Department}, \text{Job_Title}, \text{Manager_ID}, \text{Hire_Date}, \text{Salary}$ (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



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

VEL TECH - CSE	
EX NO.	99
PERFORMED BY	5
RESULT BY	5
VIVA VOCA BY	5
REMARKS	5
TOTAL (10)	20
SIGN WITH DATE	10/10/16