

10/10/15 Task - 9 : Backing up and recovery in database
Perform following backup and recovery scenarios.

- Recovering a NOARCHIVELOG Database with Incremental Backups.
- Restoring the server parameter File.
- Performing Recovery with a Backup control File.

Scenario 1 : Recovering a NOARCHIVELOG Database with Incremental Backups.

Step 1 : Backup Database

BACKUP DATABASE TO DISK = 'backup-file.bak' WITH
NO FORMAT, NOINIT, 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, NOINIT, NAME
= 'Incremental Database Backup', SKIP, REWIND,
NOUNLOAD, STATS = 10

- Step 3 : Simulate Data loss

- 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 Database

RECOVER DATABASE [database-name]

- Step 7 : Open Database

ALTER DATABASE [database-name] SET ONLINE

Scenario 2 : Restoring the server parameter file (SPFILE)

- Step 1 : Backup SPFILE

BACKUP SERVER PARAMETER FILE TO FILE =
'SPfile.bak';

Output :

```
> db.mylab.find({},
  {item:1,qty:1}).pretty()
{
  "_id" : ObjectId("627d13acc73990c
074e6397c"),
  "item" : "canvas",
  "qty" : 100
}
{
  "_id" : ObjectId("627d1598c73990c
074e6397d"),
  "item" : "journal",
  "qty" : 25
}
{
  "_id" : ObjectId("627d1598c739
90c074e6397e"), "item" : "mat",
  "qty" : 85 }
{
  "_id" : ObjectId("627d1598c
73990c074e6397f"), "item" :
  "mousepad", "qty" : 25}
```

Output :

json

```
{ "_id" : ObjectId("627d13acc  
73990c074e6397c"), "item" :  
"canvas", "qty" : 100, "tags" :  
[ "cotton" ], "size" : { "h" :  
28, "w" : 35.5, "uom" : "cm" } }
```

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 CONTROLFILE FROM FILE = 'controlfile.bak';

'ALTER CONTROLFILE REUSE;

Step 4 : Recover Database

RECOVER DATABASE USING BACKUP CONTROLFILE;

Step 5 : Open Database

ALTER DATABASE USING BACKUP CONTROLFILE;

SQL Server Commands :

- BACKUP DATABASE

- RESTORE DATABASE

- RECOVER DATABASE

- ALTER DATABASE

- BACKUP SERVER PARAMETER FILE

- RESTORE SERVER PARAMETER FILE

- BACKUP CONTROL FILE

- RESTORE CONTROLFILE

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

VEL TECH - CSE	
EX NO.	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20
DATE	20/01/2018