

Task-9 :- Backing Up and Recovery in Databases

10/10/25

Perform following backup and recovery scenarios

a) Recovering a NOARCHIVELOG Database with i.

Incremental Backups

b.) Restoring Recovery with service parameter file.

c.) Performing Recovery with a Backup Control File.

Scenario :- I :- Recovering a NOARCHIVELOG Database with Incremental Backups.

Step-1 :- Backup Database

BACKUP DATABASE To DISK = 'backup_file', BACK WITH
NOFORMAT, NOINIT, NAME = 'Full, Database Backup',
SKIP, REWIND, NOLOAD, STATS = 10

Step-2 :- Create Incremental Backup

Backup Database To Disk = 'increment_backup.bak',
WITH DIFFERENTIAL, NOFORMAT, NOINIT, NAME =
'Increment Database Backup', SKIP, REWIND, NOLOAD
STATS = 10

Step-3 :- Simulate Data loss

→ Intentionally delete or modify data.

Step-4 :- Restore Database

RESTORE DATABASE (database-name) FROM DISK =
'increment backup.bak' WITH REPLACE

Step-5 :- Apply Incremental Backup

RESTORE DATABASE (database-name) FROM DISK =
'increment backup.bak' WITH REPLACE

```
> 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}
```



Step-6 :- Recover 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 =
1 spfile.bak;

Step-2 :- Simulate SPFILE loss

- Delete or modify SPFILE

Step-3 :- Restore SPFILE

\ STARTUP MOUNT.

Restore Server PARAMETER FILE FROM FILE =

1 spfile.bak;

SHTUT DOWN

STARTUP

Scenario 3 :- Restore Control file

STARTUP MOUNT

RESTORE CONTROLFILE FROM FILE = 1 controlfile.bak

ALTER CONTROLFILE REUSE;

- Step-4 :- Recover Database

RECOVER DATABASE USING BACKUP CONTROLFILE;

Step-5 :- Open Database

ALTER DATABASE USING BACKUP CONTROLFILE;

(315 773)

json

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

SQL Server Common ds:-

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

Result:- Thus, the Backing up and recovery in databases created and verified output successfully

VEL TECH-CSE	
EX NO.	9
PERFORMANCE (5)	✓
RESULT AND ANALYSIS (5)	✓
VIVA VOCE (5)	✓
REPORT (5)	✓
GRAND TOTAL	29

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