

TRANSACTIONS

What is Transactions?

Transactions is a group of commands that change the data stored in a database. A transaction, is treated as single unit. A transactions ensure that, either all of the commands succeed, or none of them. If one of the commands in the transaction fails, all of the commands fails, and data that was modified in the database is rolled back. In this way, transaction maintain the integrity of the data in a database.

Transaction processing follows these steps.

1. Begin a transition
2. Process database commands.
3. Check for errors.

 If error occurred,

 Roll back the transaction

 Else

 Commit the transaction

Begin Try

Begin Transaction

 -- Command 1

 -- Command 2

 -- Command 3

Commit Transaction

End Try

Begin Catch

 Rollback Transaction

End Catch

Note: NOT able to see the un-committed changes.

SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED

Example

```
Select * from tblEmp
```

```
Begin Try
```

```
    Begin Transaction
```

```
        Update tblEmp set Ename='Amit' where ID=5
```

```
    Commit transaction
```

```
    Print 'Transaction Commit'
```

```
End Try
```

```
Begin Catch
```

```
    Rollback Transaction
```

```
    Print 'Transaction Roll Back '
```

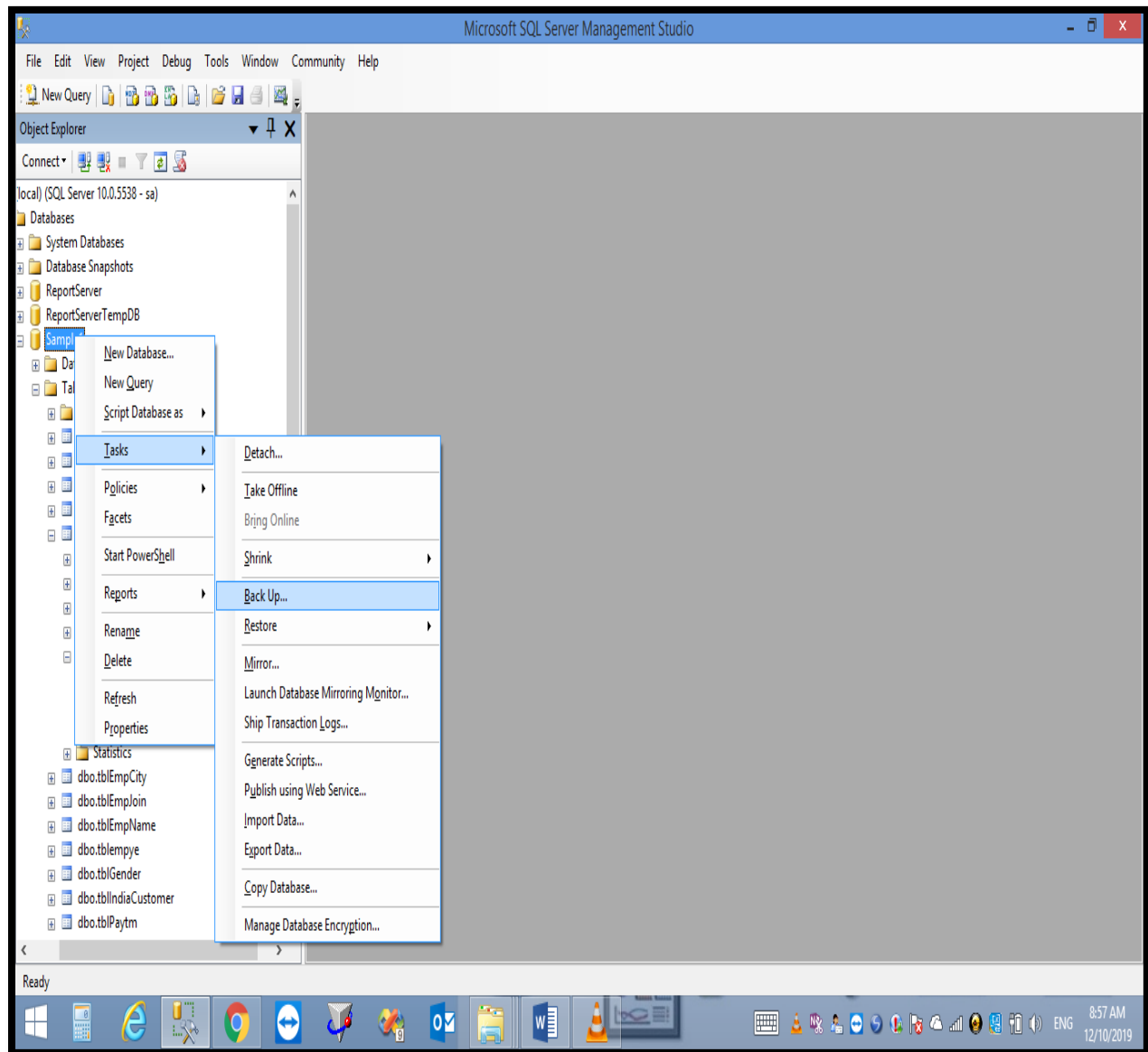
```
End Catch
```

Backup & Restore Database

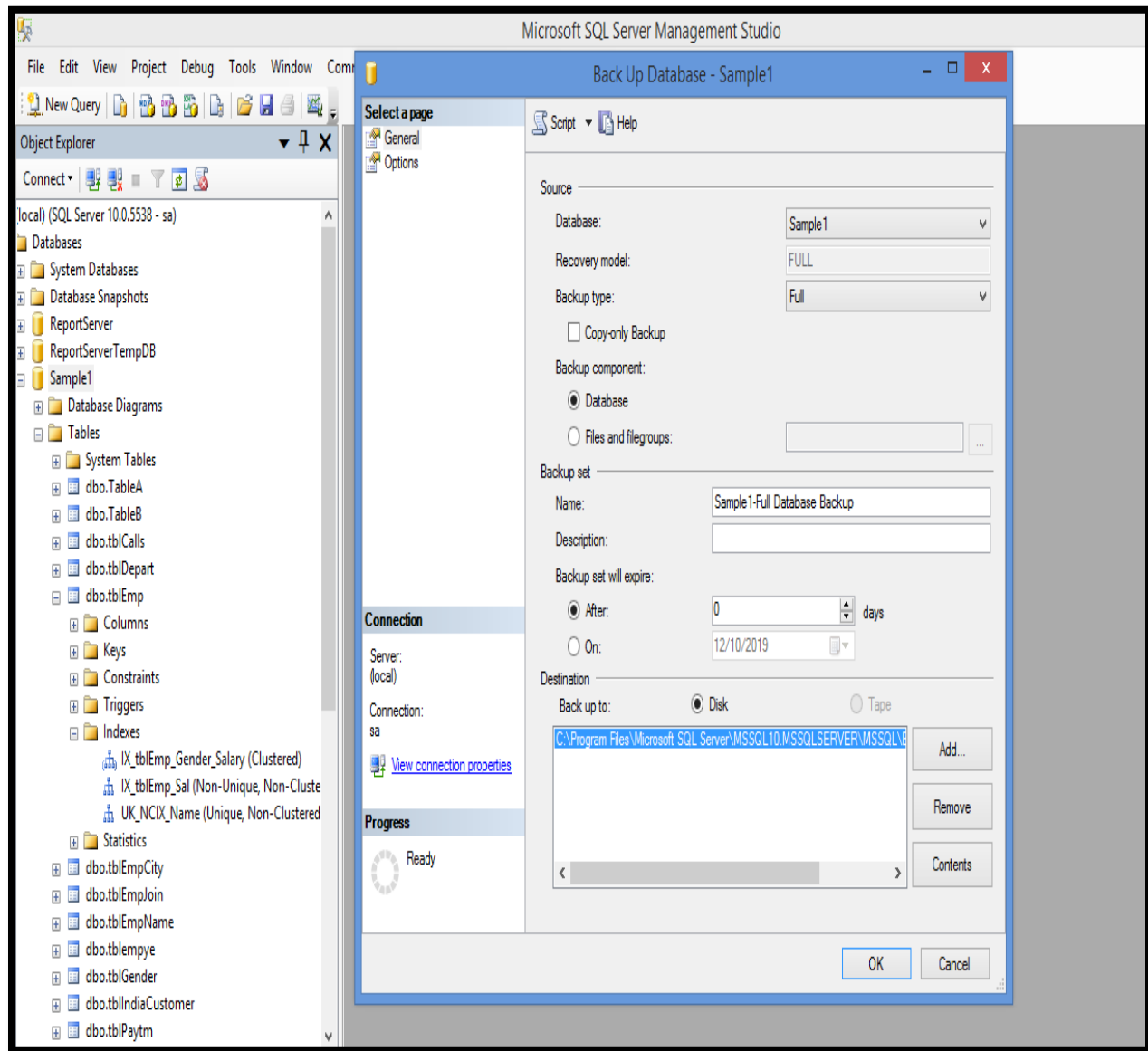
1. Using bak file
2. Using dacpac file
3. Using mdf file

Using bak file

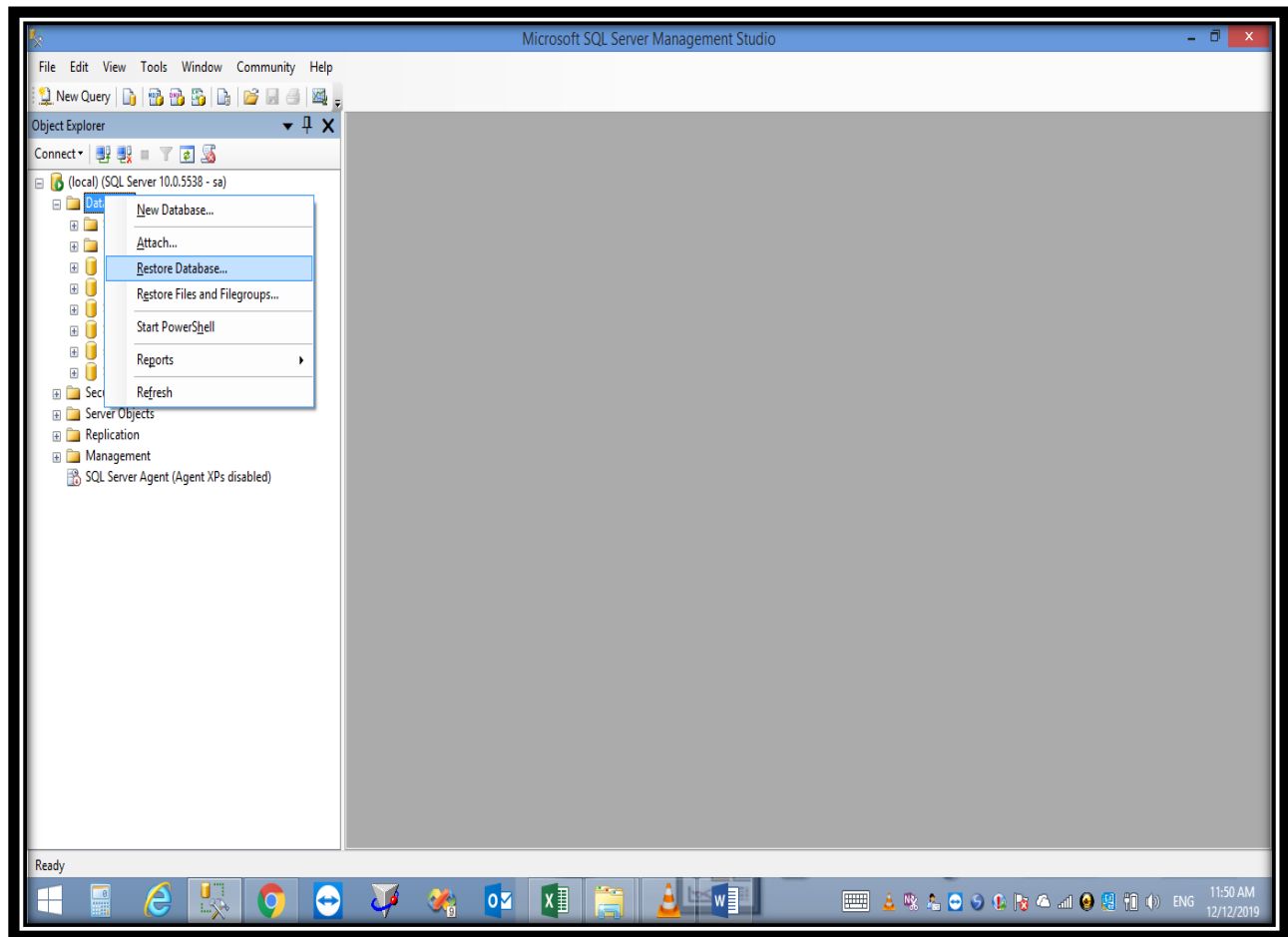
Step 1



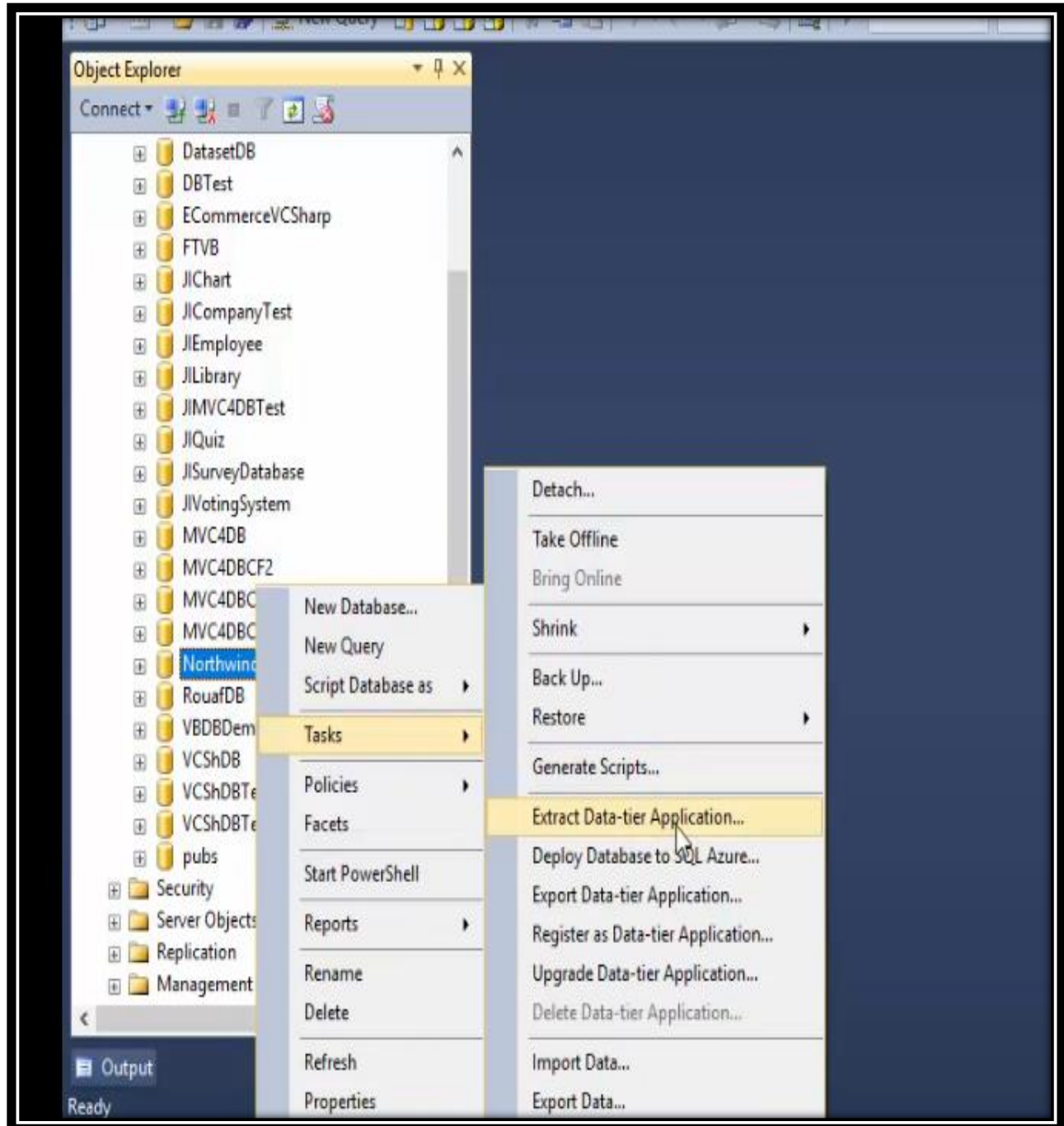
Step 2





Resotre



Using dacpac file



Extract Data-tier Application



Set Properties

Introduction

Set Properties

Validation and Summary

Build Package

Help

Set the DAC properties.

Application name:

Version (use x.x.x.x where x is a number):

Description:

Save to DAC package file (include .dacpac extension with the file name):

☐ Overwrite existing file

The application name, version, and description are displayed in SQL Server Management Studio after the DAC has been deployed.

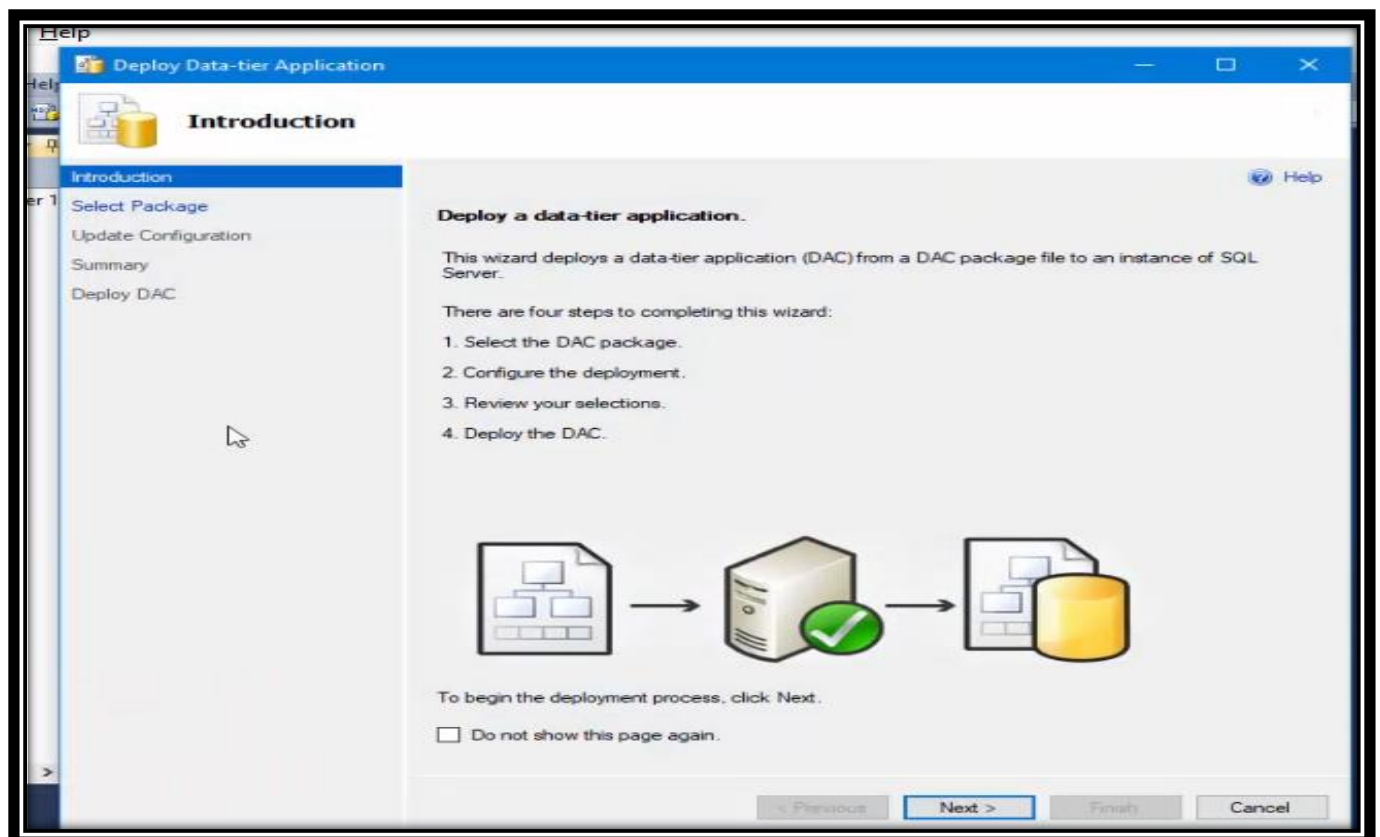
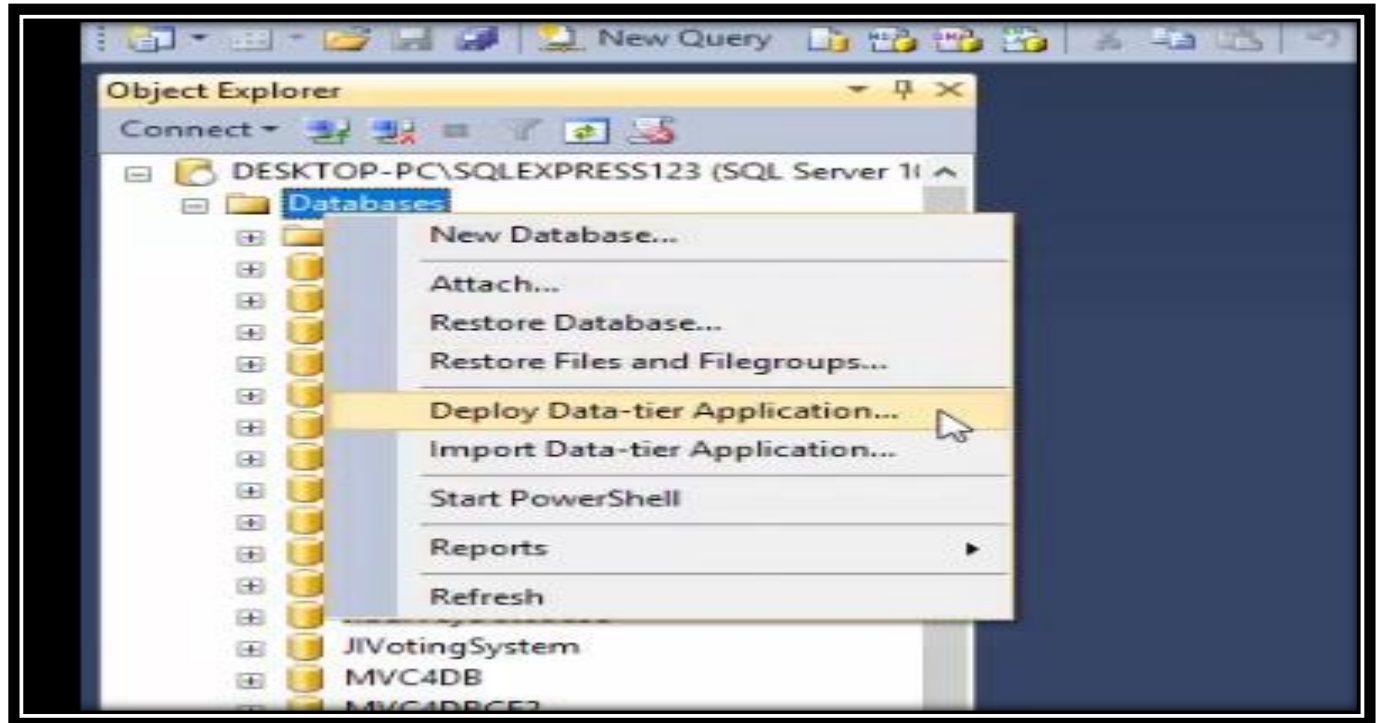
< Previous

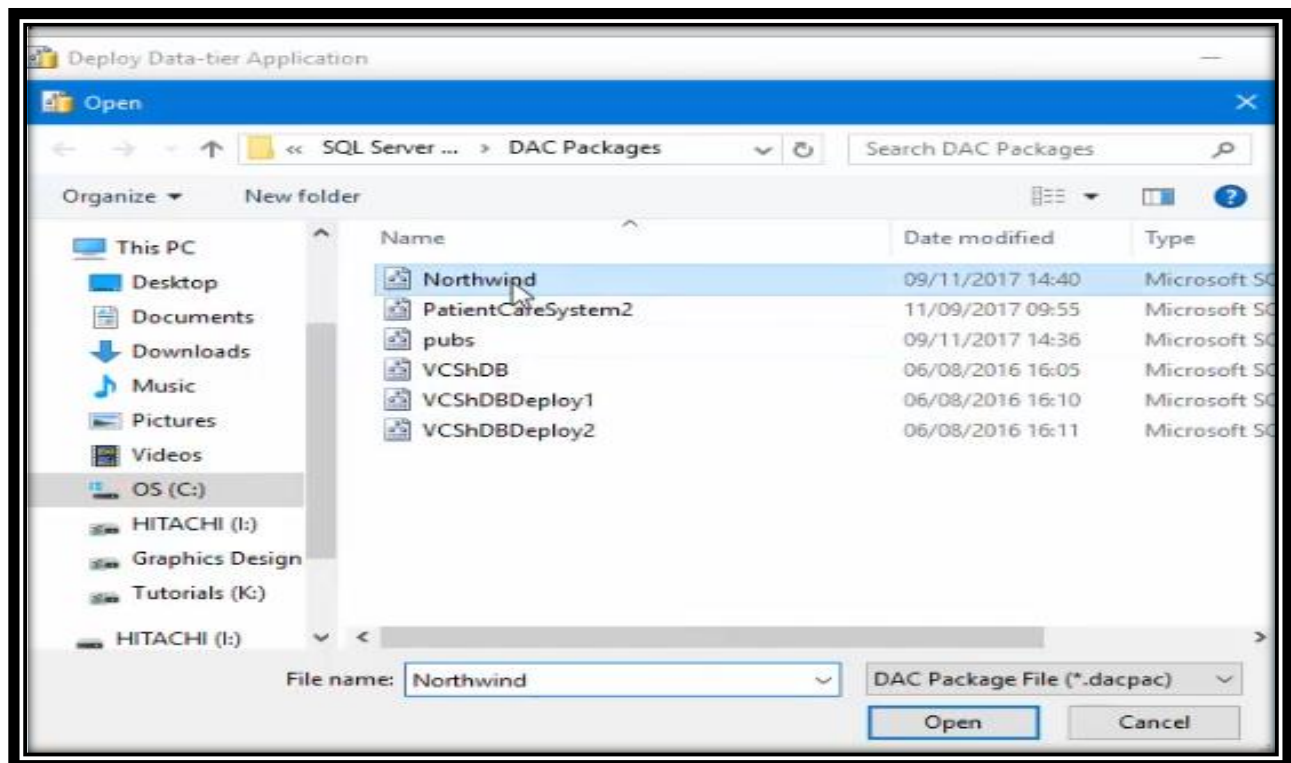
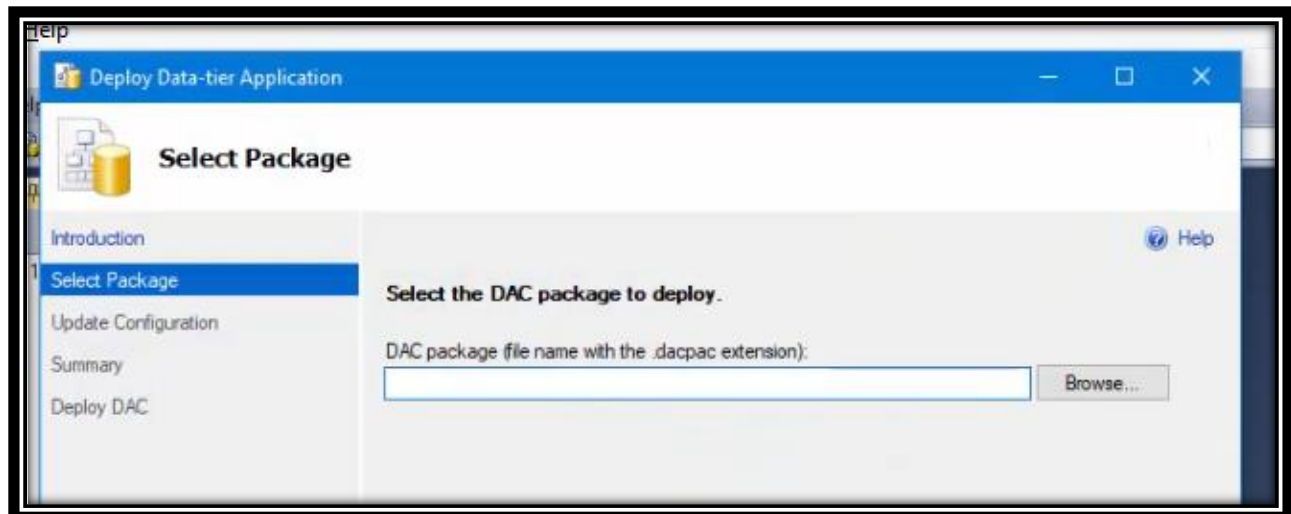
Next >

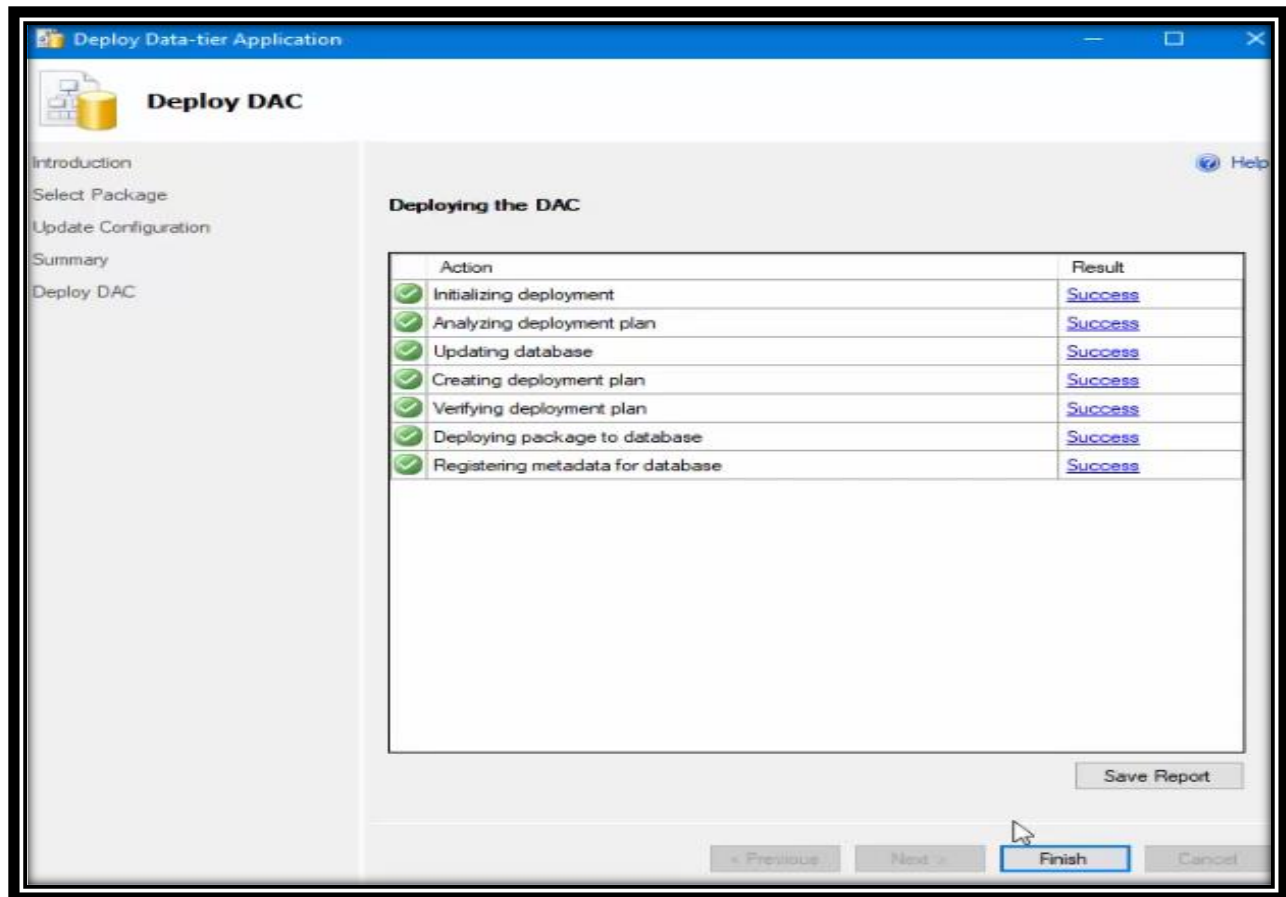
Finish

Cancel

Restore Database

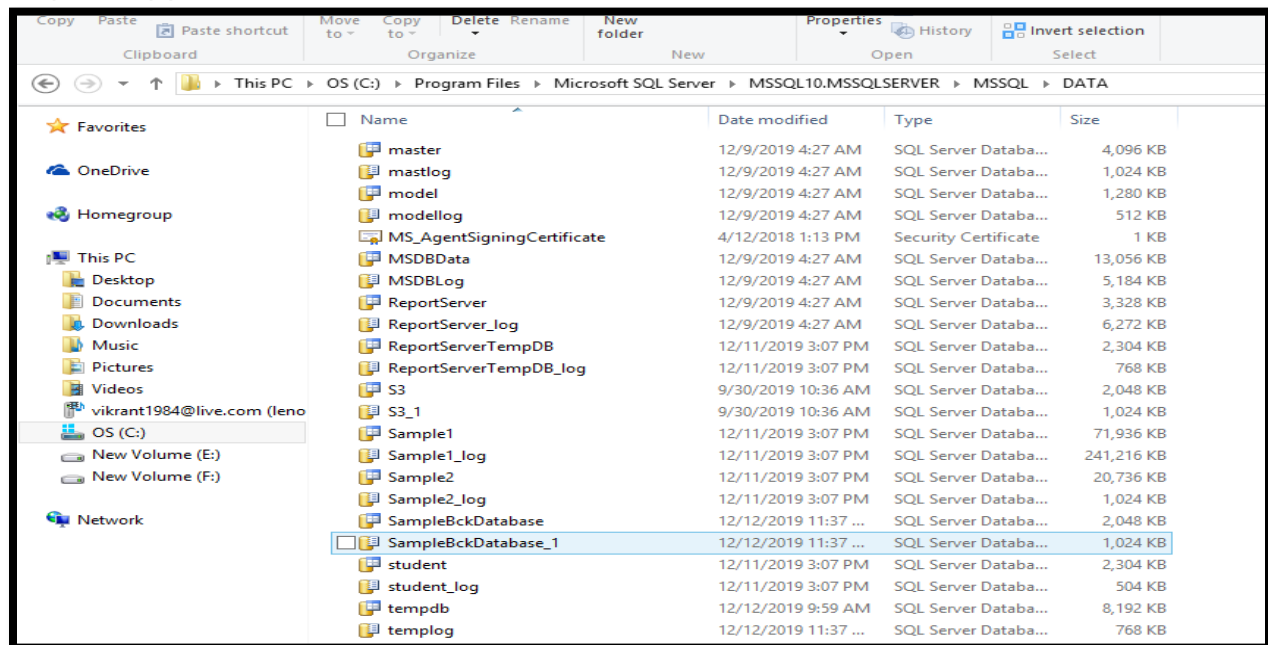




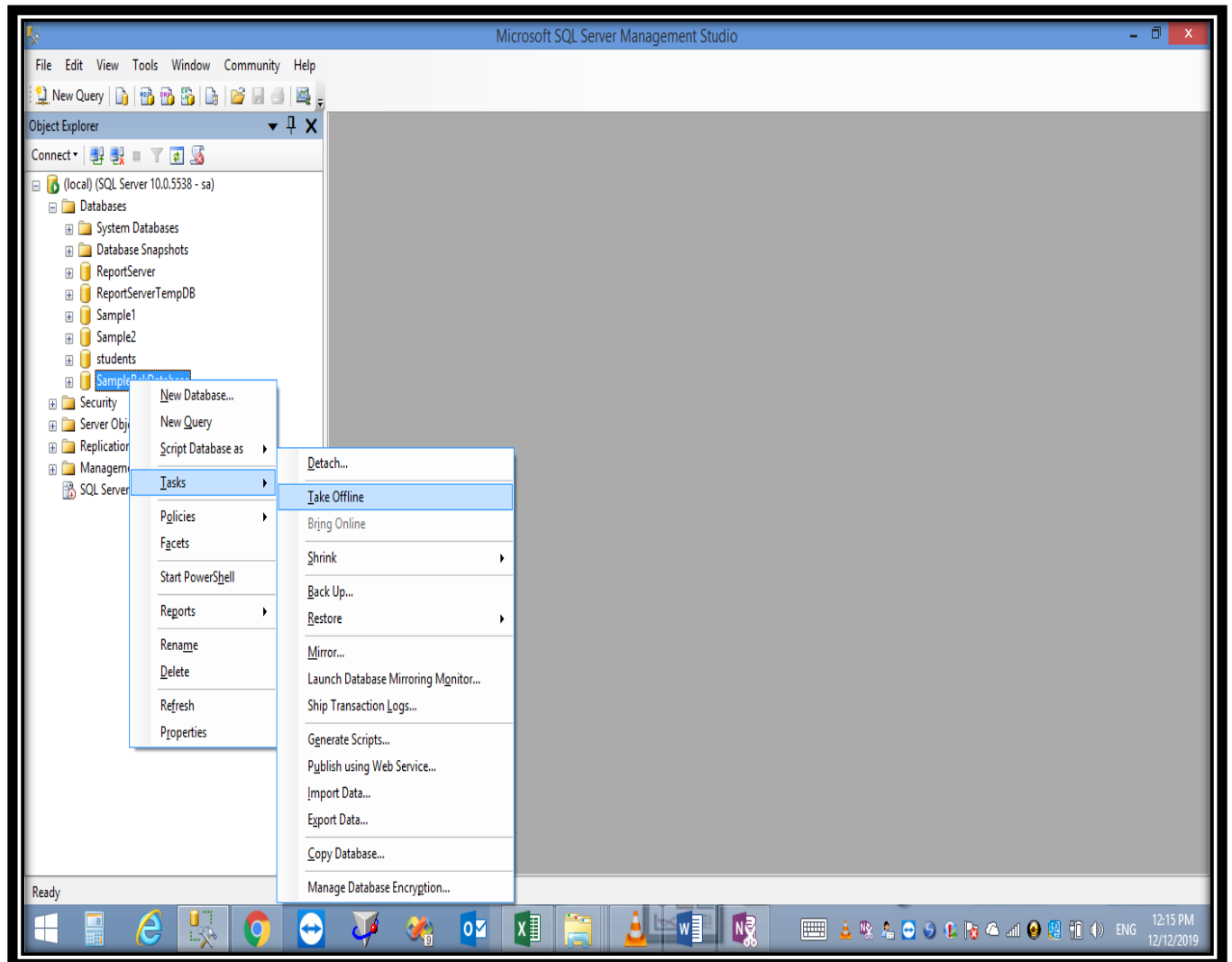


Using mdf file

Step1. Copy Database from this location.



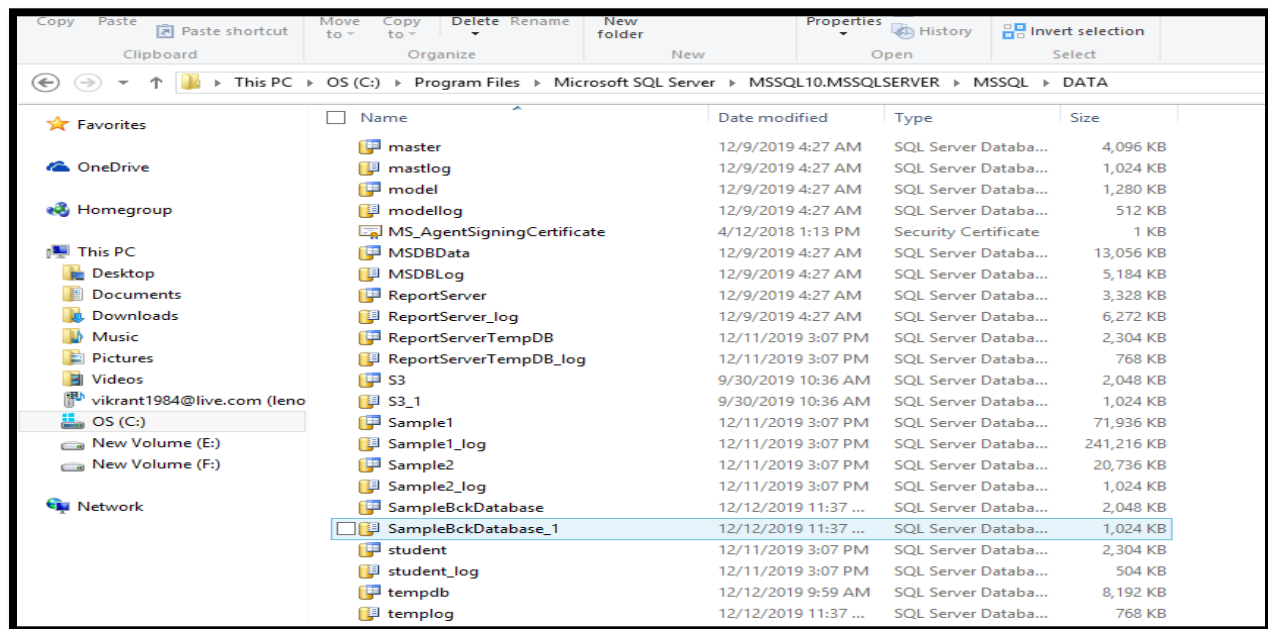
Step2: Before copy the database



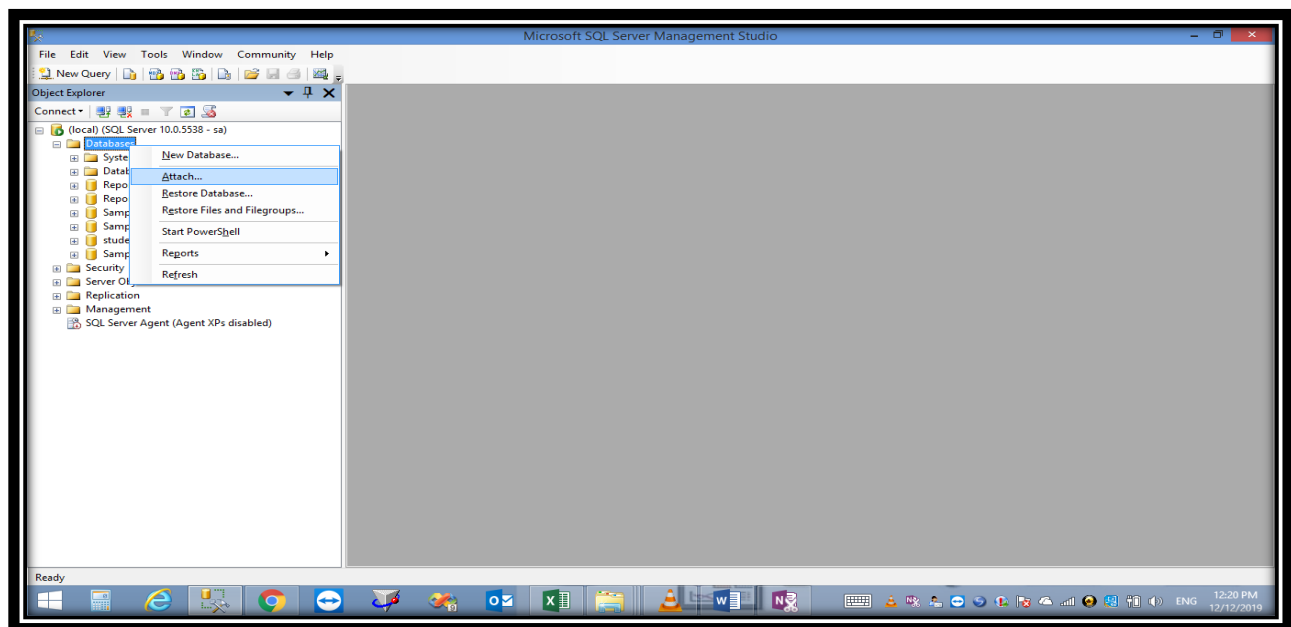
Step 3: After Copy the Database do take Online again.

Step 4: Delete the Database.

Step 5: Again Paste the Log and MDF file on this location.



Step 6: Right click on Database and right click and click to attach.



Step 7: Select the MDF file of database which you want to restore and click on OK button.

