



­

Assignment Document:

Change Data Capture Sql Server

Version: < Sql Server 2008>/ASSIGNMENT/xxxx/x.x

Date: 03-08-2011

Cognizant

500 Glen Pointe Center West

Teaneck, NJ 07666

Ph: 201-801-0233  
[www.cognizant.com](http://www.cognizant.com)

Contents

[Topic :< Change Data Capture> 3](#_Toc300212517)

[Hands-On Exercises 3](#_Toc300212518)

[Hands-On Exercise 1: <**Using** **Change Data Capture to record INSERTs, UPDATEs, and DELETEs applied to SQL Server tables**> 3](#_Toc300212519)

Topic :< Change Data Capture>

Total Completion Time:10 minutes

### Hands-On Exercises

Hands-On Exercise 1: <Using Change Data Capture to record INSERTs, UPDATEs, and DELETEs applied to SQL Server tables>

Step 1: Run the following query to check whether CDC is enabled for any database

USE master   
GO   
SELECT [name], database\_id, is\_cdc\_enabled    
FROM sys.databases         
GO

Step 2: run this stored procedure in the context of each database to enable CDC at database level. (The following script will enable CDC in AdventureWorks database

USE AdventureWorks

GO

EXEC sys.sp\_cdc\_enable\_db

GO

Step 3*:* Run the following query to show which tables of database have already been enabled for CDC.

USE AdventureWorks   
GO   
SELECT [name], is\_tracked\_by\_cdc    
FROM sys.tables   
GO

Step 4: Run the following script to enable CDC on HumanResources.Shift table

USE AdventureWorks   
GO   
EXEC sys.sp\_cdc\_enable\_table   
@source\_schema = N'HumanResources',   
@source\_name   = N'Shift',   
@role\_name     = NULL   
GO

Step5:Run the following script to select from both tables and see what is in them.

USE AdventureWorks   
GO   
SELECT \*   
FROM HumanResources.Shift   
GO   
USE AdventureWorks   
GO   
SELECT \*   
FROM cdc.HumanResources\_Shift\_CT   
GO

Step6: Run the following script to perform INSERT operation on the table HumanResources.Shift.

USE AdventureWorks   
GO   
INSERT INTO [HumanResources].[Shift]   
       ([Name],[StartTime],[EndTime],[ModifiedDate])   
VALUES ('Tracked Shift',GETDATE(), GETDATE(), GETDATE())   
GO

Step7: Run the following script to check the content of two of our tables HumanResources.Shift and cdc.HumanResources\_Shift\_CT.

USE AdventureWorks   
GO   
SELECT \*   
FROM HumanResources.Shift   
GO   
USE AdventureWorks   
GO   
SELECT \*   
FROM cdc.HumanResources\_Shift\_CT   
GO

Step8: Run the below script to illustrate the effects of an update

USE AdventureWorks

GO

UPDATE [HumanResources].[Shift]

SET Name = 'New Name',

      ModifiedDate = GETDATE()

WHERE ShiftID = 4

GO

Step9:Check our tables HumanResources.Shift and cdc.HumanResources\_Shift\_CT.

USE AdventureWorks   
GO   
SELECT \*   
FROM HumanResources.Shift   
GO   
USE AdventureWorks   
GO   
SELECT \*   
FROM cdc.HumanResources\_Shift\_CT   
GO

Step10: Run a delete operation on a newly inserted row.

USE AdventureWorks   
GO   
DELETE   
FROM [HumanResources].[Shift]   
WHERE ShiftID = 4   
GO

Step11: Once the above script is run, we can see the contents of  our tables HumanResources.Shift and cdc.HumanResources\_Shift\_CT.

USE AdventureWorks   
GO   
SELECT \*   
FROM HumanResources.Shift   
GO   
USE AdventureWorks   
GO   
SELECT \*   
FROM cdc.HumanResources\_Shift\_CT   
GO

Step12: We can retrieve Capture Instance by running following T-SQL Query.

USE AdventureWorks;   
GO   
EXEC sys.sp\_cdc\_help\_change\_data\_capture   
GO

Step12: Disable tracking of the table by running this T-SQL query

USE AdventureWorks;

GO

EXECUTE sys.sp\_cdc\_disable\_table

    @source\_schema = N'HumanResources',

    @source\_name = N'Shift',

    @capture\_instance = N'HumanResources\_Shift';

GO

Step13: Running following T-SQL query will disable CDC on whole database.

USE AdventureWorks   
GO   
EXEC sys.sp\_cdc\_disable\_db   
GO

Summary

You have just learnt:

* How to enable and disable a change data capture on a database and table
* How to track the changes on the table caused by insertion , update and delete.