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Assignment Document:

Deadlocks in Sql Server

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

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Cognizant

500 Glen Pointe Center West

Teaneck, NJ 07666

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

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Total Completion Time:9 minutes

### Hands-On Exercises

Hands-On Exercise 1: <DEADLOCK>

Estimated Completion Time: 3 Minutes

Step 1: Create a sample table and populate it.

Step 2: Run the two SET of queries given below in two different sessions.

Step 3: Understand the working of DEADLOCK.

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--Session 1 Queries

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--creation of database

CREATE DATABASE sample\_test

GO

USE sample\_test

GO

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--creation of sample table

CREATE TABLE customer(customerid INT PRIMARY KEY,name VARCHAR(20))

INSERT into customer VALUES(1,'Clara'),(2,'Henry'),(3,'Jerry'),(4,'Jane'),(5,'peter')

CREATE TABLE order1(orderid INT PRIMARY KEY,shippingid INT,customerid INT CONSTRAINT fk1 REFERENCES customer(customerid))

INSERT into order1 VALUES(1,1,1),(2,2,2),(3,3,3),(4,4,4),(5,5,5)

--Deadlock occurance

BEGIN TRAN

UPDATE customer SET name='James' WHERE customerid=3

WAITFOR DELAY '00:00:10'

UPDATE order1 SET shippingid=2 WHERE customerid=3

COMMIT TRAN

--overcome deadlock

BEGIN TRAN

UPDATE customer SET name='James' WHERE customerid=3

WAITFOR DELAY '00:00:10'

UPDATE order1 SET shippingid=2 WHERE customerid=3

COMMIT TRAN

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--Session 2 Queries

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--Deadlock Occurance

BEGIN TRAN

UPDATE order1 SET shippingid=2 WHERE customerid=3

WAITFOR DELAY '00:00:10'

UPDATE customer SET name='James' WHERE customerid=3

COMMIT TRAN

--Overcome Deadlock

BEGIN TRAN

UPDATE customer SET name='Jack' WHERE customerid=3

WAITFOR DELAY '00:00:10'

UPDATE order1 SET shippingid=3 WHERE customerid=3

COMMIT TRAN

Summary

You have just learnt:

* How the DEADLOCK occurs
* How to overcome DEADLOCK.