

SQL Server Tutorial

Part 71 - SQL Server dirty read example

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In this session we will learn

- Dirty read concurrency problem with an example

Link to Dot Net Basics, ASP.NET, C#, ADO.NET and SQL Server video series

<http://www.youtube.com/user/kudvenkat/playlists>

Suggested Videos

Part 68 - Optional parameters in sql server stored procedures

Part 69 - Merge in SQL Server

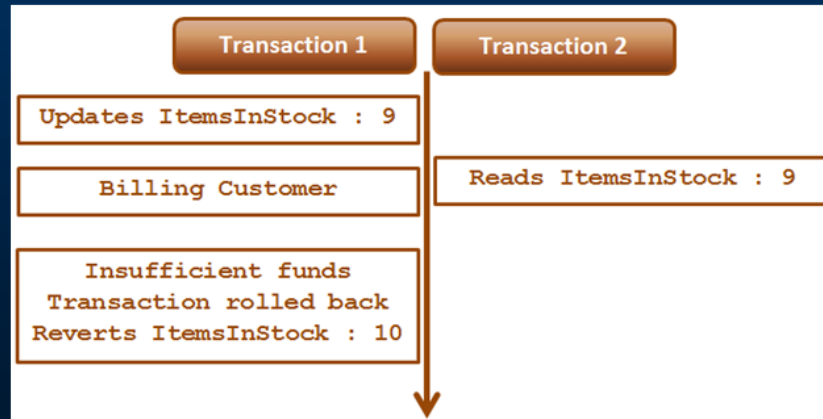
Part 70 - SQL Server concurrent transactions

SQL Server Dirty Read Example

If you are in need of the DVD with all the videos and PPT's, please visit
<http://pragimtech.com/order.aspx>

A dirty read happens when one transaction is permitted to read data that has been modified by another transaction that has not yet been committed. In most cases this would not cause a problem. However, if the first transaction is rolled back after the second reads the data, the second transaction has dirty data that does not exist anymore

Id	Product	ItemsInStock
1	iPhone	10



SQL Server Dirty Read Example

Id	Product	ItemsInStock
1	iPhone	10

```
--Transaction 1 :  
Begin Tran  
Update tblInventory set ItemsInStock = 9 where Id=1  
  
-- Billing the customer  
Waitfor Delay '00:00:15'  
-- Insufficient Funds. Rollback transaction  
Rollback Transaction
```

```
--Transaction 2 :  
Set Transaction Isolation Level Read Uncommitted  
Select * from tblInventory where Id=1
```

Read Uncommitted transaction isolation level is the only isolation level that has dirty read side effect. This is the least restrictive of all the isolation levels. When this transaction isolation level is set, it is possible to read uncommitted or dirty data. Another option to read dirty data is by using NOLOCK table hint. The query below is equivalent to the query in Transaction 2.

```
Select * from tblInventory (NOLOCK) where Id=1
```

Additional Resources

PRAGIM Home Page:

www.PragimTech.com

Resources:

C#, ADO.NET, ASP.NET, SQL Server & MVC youtube Playlists

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