

SQL Server Tutorial

Part 73 - Non repeatable read example in sql server

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In this session we will learn

- Non repeatable read concurrency problem

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 70 - SQL Server concurrent transactions

Part 71 - SQL Server dirty read example

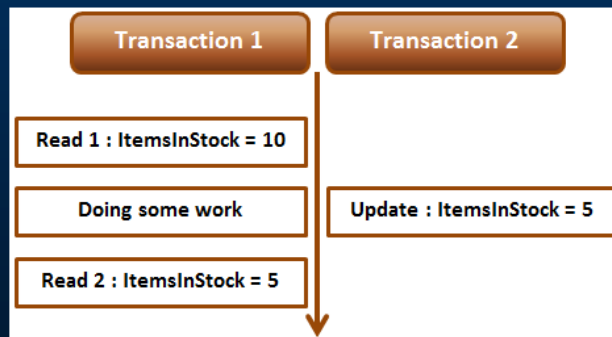
Part 72 - SQL Server lost update problem

Non repeatable read example

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

Non repeatable read happens when one transaction reads the same data twice and another transaction updates that data in between the first and second read of transaction one.

Id	Product	ItemsInStock
1	iPhone	10



Non repeatable read example

```
-- Transaction 1
Begin Transaction
Select ItemsInStock
from tblInventory where Id = 1

-- Do Some work
waitfor delay '00:00:10'

Select ItemsInStock
from tblInventory where Id = 1
Commit Transaction

-- Transaction 2
Update tblInventory
set ItemsInStock = 5 where Id = 1
```

Repeatable read or any other higher isolation level should solve the non-repeatable read problem. To fix the non-repeatable read problem, set transaction isolation level of Transaction 1 to repeatable read. This will ensure that the data that Transaction 1 has read, will be prevented from being updated or deleted elsewhere. This solves the non-repeatable read problem

Isolation Level	Dirty Reads	Lost Update	Nonrepeatable Reads	Phantom Reads
Read Uncommitted	Yes	Yes	Yes	Yes
Read Committed	No	Yes	Yes	Yes
Repeatable Read	No	No	No	Yes
Snapshot	No	No	No	No
Serializable	No	No	No	No

Additional Resources

PRAGIM Home Page:

www.PragimTech.com

Resources:

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

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