

SQL Server Tutorial

Part 78 - SQL Server deadlock example

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In this session we will learn

- Deadlocks in SQL Server

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 75 - Snapshot isolation level in SQL Server

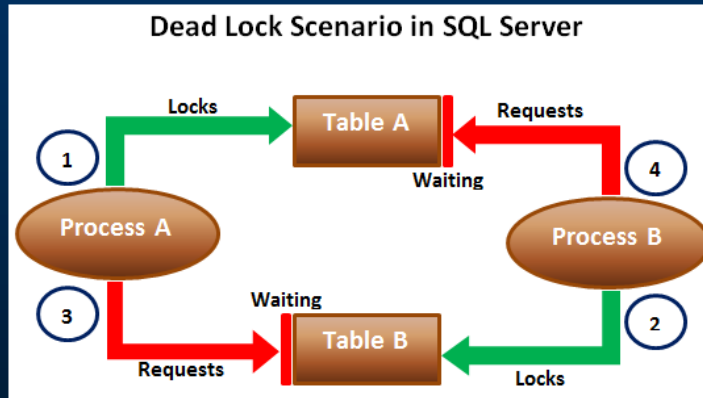
Part 76 - Read committed snapshot isolation level in sql server

Part 77 - Difference between snapshot isolation and read committed snapshot

SQL Server Deadlock Example

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

In a database, a deadlock occurs when two or more processes have a resource locked, and each process requests a lock on the resource that another process has already locked. Neither of the transactions here can move forward, as each one is waiting for the other to release the lock



When deadlocks occur, SQL Server will choose one of processes as the deadlock victim and rollback that process, so the other process can move forward

SQL Server Deadlock Example

| Table A | |
|---------|------|
| Id | Name |
| 1 | Mark |

| Table B | |
|---------|------|
| Id | Name |
| 1 | Mary |

```
-- Transaction 1
Begin Tran
Update TableA Set Name = 'Mark Transaction 1' where Id = 1

-- From Transaction 2 window execute the first update statement

Update TableB Set Name = 'Mary Transaction 1' where Id = 1

-- From Transaction 2 window execute the second update statement
Commit Transaction

-- Transaction 2
Begin Tran
Update TableB Set Name = 'Mark Transaction 2' where Id = 1

-- From Transaction 1 window execute the second update statement

Update TableA Set Name = 'Mary Transaction 2' where Id = 1

-- After a few seconds notice that one of the transactions complete
-- successfully while the other transaction is made the deadlock victim
Commit Transaction
```

Next video: Criteria SQL Server uses to choose a deadlock victim

Additional Resources

PRAGIM Home Page:

www.PragimTech.com

Resources:

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

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