

SQL Server Tutorial

Part 81 - SQL Server deadlock analysis and prevention

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In this session we will learn

- How to read and analyze sql server deadlock information captured in the error log

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 78 - SQL Server deadlock example

Part 79 - SQL Server deadlock victim selection

Part 80 - Logging deadlocks in sql server

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If you are in need of the DVD with all the videos and PPT's, please visit

<http://pragimtech.com/order.aspx>

The deadlock information in the error log has three sections

Section	Description
Deadlock Victim	Contains the ID of the process that was selected as the deadlock victim and killed by SQL Server
Process List	Contains the list of the processes that participated in the deadlock
Resource List	Contains the list of the resources (database objects) owned by the processes involved in the deadlock

Process List Section :

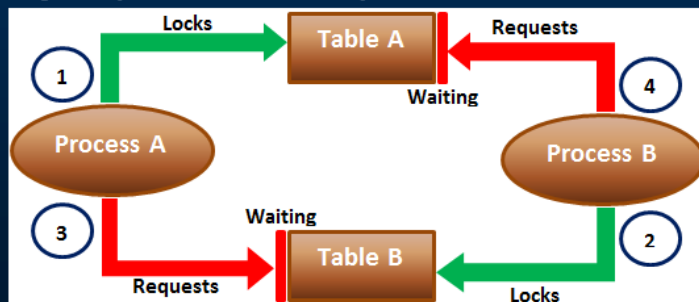
Node	Description
loginname	The loginname associated with the process
isolationlevel	What isolation level is used
procname	The stored procedure name
Inputbuf	The code the process is executing when the deadlock occurred

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Resource List Section

Node	Description
objectname	Fully qualified name of the resource involved in the deadlock
owner-list	Contains (owner id) the id of the owning process and the lock mode it has acquired on the resource. lock mode determines how the resource can be accessed by concurrent transactions. S for Shared lock, U for Update lock, X for Exclusive lock etc
waiter-list	Contains (waiter id) the id of the process that wants to acquire a lock on the resource and the lock mode it is requesting

To prevent the deadlock that we have in our case, we need to ensure that database objects (Table A & Table B) are accessed in the same order every time



Additional Resources

PRAGIM Home Page:

www.PragimTech.com

Resources:

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

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

Code samples and text version of all the videos on my blog

<http://www.csharp-video-tutorials.blogspot.com>

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