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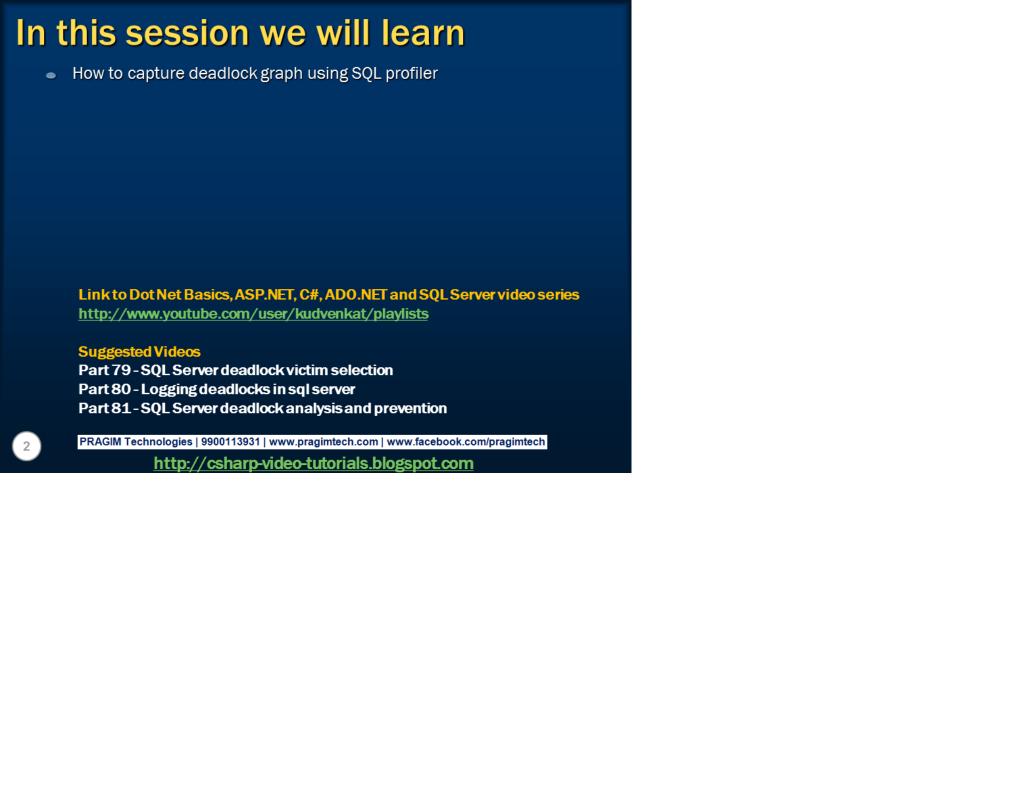
SQL Server Tutorial

Part 82 - Capturing deadlocks in SQL Profiler

Venkat
PRAGIM Technologies
kudvenkat@gmail.com
http://csharp-video-tutorials.blogspot.com

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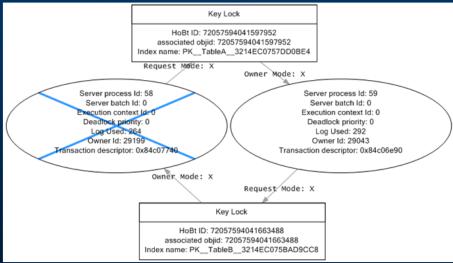




Capturing Deadlocks in SQL Profiler

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

To capture deadlock graph, add Deadlock graph event to the trace in SQL profiler



The deadlock graph data is captured in XML format which can be extracted to a physical file for later analysis. This is similar to data captured using trace flag 1222.



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Analyzing Deadlock Graph

- 1. The oval on the graph, with the blue cross, represents the transaction that was chosen as the deadlock victim by SQL Server.
- 2. The oval on the graph without blue cross represents the transaction that completed successfully.
- 3. When you move the mouse pointer over the oval, you can see the SQL code that was running that caused the deadlock.
- 4. The oval symbols represent the process nodes
- Server Process Id: If you are using SQL Server Management Studio you can see the server process id on information bar at the bottom
- Deadlock Priority: If you have not set DEADLOCK PRIORITY explicitly using SET DEADLOCK PRIORITY statement, then both the processes should have the same default deadlock priority NORMAL (0)
- Log Used: The transaction log space used. If a transaction has used a lot of log space then the cost to roll it back is also more. So the transaction that has used the least log space is killed and rolled back

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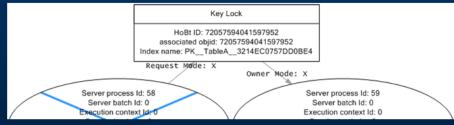
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Analyzing Deadlock Graph

- 5. The rectangles represent the resource nodes.
 - a) HoBt ID: Heap Or Binary Tree ID. Using this ID query sys.partitions view to find the database objects involved in the deadlock.

```
SELECT object_name([object_id])
FROM sys.partitions
WHERE hobt_id = 72057594041663488
```

6. The arrows represent types of locks each process has on each resource node.



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