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Assignment Document:

Locks in Sql Server

Version: < Sql Server 2008>/ASSIGNMENT/xxxx/x.x

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Total Completion Time:9 minutes

### Hands-On Exercises

Hands-On Exercise 1: <LOCKS>

Estimated Completion Time: 3 Minutes

Step 1: Create a sample table and populate it.

Step 2: Run the two SET of queries given below in two different sessions.

Step 3: Understand the working of different modes of LOCKS.

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--Session 1 Queries

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--Creation of the sample database

Create database Sample\_Database

Go

Use Sample\_database

Go

--Creation of the Sample Table Lock\_test

create table Lock\_Test

(

id int,

name varchar(20)

)

--Populating the table

insert into Lock\_Test values(1,'Prabhu'),(2,'hari'),(3,'Ram'),(4,'Murali'),(5,'Kat')

----------------------------------------------------------------------------------

--Lock Hints

begin tran

select name from Lock\_Test

--with(NOLOCK)

where id between 1 and 3

commit tran

----------------------------------------------------------------------------------

--Update Lock converting to an X lock upon modification

begin tran

select name from Lock\_Test with(UPDLOCK) where id between 1 and 3

--update Lock\_Test set name='harry' where id=2

commit tran

----------------------------------------------------------------------------------

--Exclusive lock

begin tran

select \* from Lock\_Test with(HOLDLOCK)

Update Lock\_Test with(XLOCK) set name='HARRY' where id=2

commit tran

----------------------------------------------------------------------------------

--to identify the locks held by the objects

exec sp\_lock

----------------------------------------------------------------------------------

--DMV to identify locks in the database

SELECT \*

FROM sys.dm\_tran\_locks

----------------------------------------------------------------------------------

--To identify the blocked processes

select \* from sys.sysprocesses

where blocked>0

----------------------------------------------------------------------------------

--To view info on sessions and whether the resource is blocked or not

exec sp\_who

--'who2' is an upgraded version of 'who' -- also provides info on the resource ------blocking the session

exec sp\_who2

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--Session 2 Queries

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--Using Lock hints we are acquiring a row lock on the specific set of rows..

begin tran

update Lock\_Test with (rowlock)

set name='harry'

where id=2

commit tran

SELECT \* FROM Lock\_test

-------------------------------------------------------------------------------------------------------------------------

--Lock Hints

begin tran

select \* from Lock\_test

commit tran

----------------------------------------------------------------------------------

--Exclusive lock

begin tran

select \* from Lock\_Test with(HOLDLOCK)

Update Lock\_Test set name='Harry' where id=2

commit tran

----------------------------------------------------------------------------------

Summary

You have just learnt:

* The table hints that help us to set locks
* Working of the different modes of locks.