**YOU ARE TO USE SQL COMMANDS TO BUILD THESE UNLESS OTHERWISE NOTED.**

**USE THE AdventureWorks2012 database for the following:**

**1. Use sp\_configure to grant the first parameter to all users by default, show advanced options and run reconfigure. Use sp\_configure to change the maximum lock settings from 0 to 20000 using the locks option and run reconfigure. Copy and paste your SQL statements and the results into your assignment submission. Don’t forget to restart the server.**

**Answer the question of why do you restart the server as a part of your solution for this problem.**

**Using SQL Server Management Studio, list the steps you take to change the number of seconds between blocked processes reports to 1. (do not use T-SQL statements) Be specific about the steps and dialogs and dialog field names you change.**

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**2. Write a statement to set the transaction isolation level to repeatable, read for your current session. In the same query, create a transaction that will execute a select statement that will display all columns from HumanResources EmployeePayHistory followed by a select statement that will display all columns from HumanResources Department. Put both select statements within a begin-commit transaction block.**

**Answer the following question: What is the one exception that does not allow you to switch isolation levels during a transaction and what is the result if you do try to switch the level?**

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**3. Use the cis605 database to create a begin-commit transaction block. In the block you will execute the following insert statements:**

insert into employee values (8902, 'Harry', 'Doe', '1C', '777-777-7777');

insert into employee values (8903, 'Jane', 'Taylor', '1A', '888-888-8888');

insert into employee values (8904, 'Joe', 'Cole', '1A', '999-999-9999');

insert into employee values (8905, 'Sue', 'Smith', '2A', '100-100-1000');

**within the transaction block save transactions a and b for the first two insert statements and then following the third and fourth insert statements roll back transaction b and then transaction a in that order. Copy and paste the SQL and results into your assignment submission.**

**Verify the results of the transaction block by selecting all columns from employee. Copy and paste the SQL and results into your assignment submission.**

**Answer the question: Looking at the select all from employees results; what was the result of running this transaction and why did you see those results?**

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**4. Using AdventureWorks 2012, create a T-SQL statement that will display the resource, name, request session id, request mode and request status for all system transaction locks.**

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**5. Using cis605, create a T-SQL statement that will disable employee lock escalation.**

**6. What is the difference between implicit and explicit transaction mode ?**

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**7. What kinds of locks are compatible with an exclusive lock ?**

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**8. Discuss the difference between row-level and page-level locking. (detailed answer)**