LAB 3

NAVIGATING SQL SERVER

This lab contains the following exercises and activities:

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| Exercise 3.1 | Locating Information using SQL Server Utilities |
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| Scenario | You are new to SQL Server. You were hired as a trainee to be part of a new group providing support for a future installation of SQL Server at your new company. While getting ready for the new installation, architects are designing the databases, programmers are preparing code and you are being given time to explore the RDBMS, the client tools and the business requirements in preparation for the launch. |
| Duration | This task should take less than one hour. |
| Setup | This task requires little setup. All you need is access to a computer with SQL Server Enterprise Edition already loaded on it. You installed SQL Server in Exercise 2.1. |
| Caveats | This task doesn’t have any caveats. |
| Procedure | In this task, you will verify that your computer meets the requirements for running SQL Server and then install the default instance. |
| Equipment Used | Although several editions of SQL Server exist, you will be working with the Enterprise Edition in this book because it has the widest range of available features. Use the computer on which you loaded SQL Server in Exercise 2.1. |
| Objective | To practice using the four main utilities provided with SQL Server. |
| Criteria for Completion | You have completed this task when you have answered all of the questions correctly. |

PART A: Locating Information

1. What is the identity seed property for the FirstName column of the Person.Contact table in the AdventureWorks database?

**Open Management Studio, Databases, AdventureWorks, Tables, Person.Contact, Columns. Right-click FirstName and choose properties. Note the Identity seed value is zero.**

2. How many different DBCC (Transact-SQL) statements does Microsoft supply with SQL Server?

**Open Books Online. Search for DBCC Shrinkfile. Open it. Click the Sync with Table of Contents button. Count the entries. About 34 are documented. Many more are available as undocumented—such as DBCC Page. Google for sites that list the undocumented utilities.**

3. How many protocols are supplied by Microsoft by default for the SQL Server service?

**Open SQL Server Configuration Manager, SQL Server 2012 Network Configuration, and highlight Protocols for MSSQLSERVER where you will learn the answer is four.**

4. Where do you add a new user to the SQLAgentOperatorRole?

**Open SQL Server Management Studio, Databases, System Databases, msdb, Security, Roles, Database Roles and then double-click SQLAgentOperatorRole.**

5. What does the pipe symbol (|) mean in Transact-SQL?

**Open Books Online. Expand SQL Server 2012 Books Online, the SQL Server Language Reference, then Transact-SQL Reference and open the Transact-SQL Syntax Conventions (Transact-SQL) article.**

6. What is your current configuration for remote connections?

**In SQL Server 2012, open Surface Area Configuration. Choose the Surface Area Configuration for Services and Connections. Under the Database Engine, click Remote Connections. In SQL Server 2008, right-click your instance, select Facets and then choose Surface Area Configuration from the drop down llist.**

7. How many database services are currently started? Do not use Windows Administrative Tools.

**Open SQL Server Configuration Manager. Click the SQL Server Services option. Count the number of green arrows.**

8. Where do you find the User Mapping configuration page?

**Use SQL Server Management Studio. Select any user to open the properties page. Click User Mapping in the Select a page pane.**

9. What is stored in the Resource hidden database?

**Open Books Online. Search for Resource Database. Read.**

10. What is the easiest way to add a new user to the SysAdmin role?

**Open the SQL Server 2012 Surface Area Configuration utility. Click Add New Administrator on the opening splash screen. Move the desired privilege to the right and type in the desired user in the top right corner.**

11. How can you easily get a list of all blocking transactions for the AdventureWorks database?

**Navigate to Databases, AdventureWorks, right-click AdventureWorks, select Reports, Standard Reports, and then All Blocking Transactions from the context menu.**

12. What are the two keys defined for the Person.Address table in the AdventureWorks database?

**Navigate to Databases, AdventureWorks, Tables, Person.Address, Keys. Here you discover the keys are named FK\_Address\_StateProvince\_StateProvinceID and PK\_Address\_AddressID.**

13. What is the Microsoft Document Explorer and how to you install it?

**Open Books Online, look at the Contents pane on the left. With everything collapsed (only plus signs showing), Document Explore information is second to last. Click the Plus sign to expand the table of contents, then the Microsoft Document Explore overview and then the Installation Information article.**

14. Using Management Studio, what data type is returned when you use the Difference function?

**Navigate to Databases, AdventureWorks, Programmability, Functions, System Functions, String Functions, Difference( ), Parameters. There you learn the function returns an integer.**

15. Using Management Studio, what is the maximum length of the parameter you may pass to the sp\_help system stored procedure in bytes?

**Navigate to Databases, AdventureWorks, Programmability, Stored Procedures, System Stored Procedures, sp\_help, Paramters. There you learn you may pass 776 national characters which is a total of 1552 bytes**