

Module 5: Performance

Demonstration: Testing Index Performance

Objectives

In this demonstration, you will see how to evaluate the performance impact of indexes.

Preparation

1. Ensure that the 10985C-MIA-DC and 10985C-MIA-SQL virtual machines are running and then log on to 10985C-MIA-SQL as **ADVENTUREWORKS\Student** with the password **Pa\$\$w0rd**.
2. Run **D:\Demofiles\Mod05\Setup.cmd** as an administrator to revert any changes.

Demonstration Steps

1. In the virtual machine, on the taskbar, click **Microsoft SQL Server Management Studio**.
2. In the **Connect to Server** dialog box, in the **Server name** box, type **MIA-SQL**. In the **Authentication** box, ensure **Windows Authentication** is selected, and then click **Connect**.
3. On the **File** menu, point to **Open**, click **File**, browse to the **D:\Demofiles\Mod05\Demo1.sql** file, and then click **Open**.
4. To turn statistics on, highlight the code under **Step 1** and click **Execute**.
5. To run a query with no indexes, highlight the code under **Step 2** and click **Execute**.
6. Click the **Messages** tab, and note the number of logical reads performed and the execution times.
7. To create indexes, highlight the code under **Step 3** and click **Execute**.
8. To run a query with indexes, highlight the code under **Step 4** and click **Execute**.
9. Click the **Messages** tab again, and compared the number of logical reads performed and the execution times against those for the previous query.
10. To drop the indexes, highlight the code under **Step 5** and click **Execute**.
11. Close SQL Server Management Studio without saving any changes.

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