ALY 6030 - Data Warehousing & SQL - 70526  
Module 5: SQL Server

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**Abstract**

In project 5, I am about to endeavor to install SQL Server 2019 and use it. Also, I will install a SQL server management studio, which is a graphic interface, and try to use it to manage or modify database the database by Transact\_SQL.

*Keywords:* SQL Server 2019, Transact\_SQL.

**Introduction**

In this module 5, I think it is the easiest project. I can follow all the instructional videos. First of all, the instructional videos introduce what SQL Server is and how to install it. Then, I will learn using SQL server management studio to create a database and leverage the Transact-SQL commands to manipulate the database to create, update, delete, add data. It is easy for beginner to understand how the database run and manage the data in a company.

**Learning** **procedures**

**Introduction** **section**

This part is to introduce a basic concept of SQL server 2019 and how and what tools we use to manage our data which is quilt straightforward. We also know who will teach us this class. However, I think that Adam Wilbert can talk about cases by using SQL server 2019 in real world and some histories to stimulate the interest of learner. All in all, this part is the overview of data management in a software.

**Get started with SQL section**

In this part, I learn what information and how I can get from the website about the edition of SQL server 2019. Each edition has different usage. The Express and Developer is free to use. Then, Adam starts to teach us how to install the SQL server 2019 and SQL server management studio. I find that the edit is only best for the Windows system or Linux not the MAC. Hence, I must install it on the desk computer. Each step is really clear and concise. It hard to make mistakes. However, I think his speaking is too fast and he also should add some common problems people can occur when people install the software. He talks too much about the edition of SQL server. I think it is unnecessary. He can give us more other information like finding the forum or good resource websites. Anyway, it is a good introduction and hand-on install illustration.

This is the install procedure. The first figure shows the SQL server 2019 developer edition to install. I chose the basic edition.

Graphical user interface

Description automatically generated

Figure 1

Select the language. I chose the English and click next.

Graphical user interface, text, application

Description automatically generated

Figure 2

Chose the location to install SQL server. I set it as a default which is locate the C drive.

Graphical user interface, text

Description automatically generated

Figure 3

This picture indicate that I had successfully install the SQL server 2019. And the instance name is MSSQLSERVER and the administrator is the DESKTOP-DR3E5AA\15699.

Graphical user interface, text

Description automatically generated

Figure 4

After I install the SQL server 2019, I clicked the connection button and tape the commands that pops out four default databases, which includes the size and the name of the database.

Text

Description automatically generated

Figure 5

What’s more, I also clicked the install SSMS button and install a graphic interface software to operate and manage our database. Figure 6 shows the install location.

Text

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Figure 6

I had successfully installed the SQL server management studio and needed to restart to complete setup.

Text

Description automatically generated

Figure 6

**Chapter 1 quiz section**

Question 1

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Question 2

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Question 3

**Graphical user interface, text, application, email

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Question 4

**Graphical user interface, text, application, email

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**Work with the SQL section**

During this part, Adam taught us how to configure and log into our server with different users. For example, we can use the SSMS to start or stop our server. Also, we also can automatically start servers. In addition, by default, the SA user account is disabled. If we want to use a SA to login, we have to set the properties to enabled. We also can know which database is connected by the top line of left object explorer pane. By this pane, we can connect other server or login with other account. This is also a very basic introduction of the SSMS. However, he gives a detailed illustration about server type and authentication and what the functions are. Of course, due to time limitation, Adam doesn’t mention other function of the SSMS. The most is important that he give us a SQL server documentation to learn the SQL server which is really helpful for beginner. In general, he listed the highlights of this section and tell us what type of server we should use.

**Chapter 2 quiz section**

Question 1

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Question 2

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Question 3

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Question 4

**Graphical user interface, text, application, email

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**SQL server management studio section**

The third part, Adam illustrated how to use the SSMS to import data and create databases and tables. Also, he mentioned that each table’s attributes and how to import your data characters. Furthermore, he also mentioned various types of data which is important when we create a table. If we want to join the table, we also use SSMS to build keys. All these consist of the basic procedure to create a database and table. His highlights are straightforward and effective. And the methods are easily understanding. However, he didn’t mention how to import the different format files and how to export our result and so on. All in all, we can know fundamental operations. It is a good start.

**Chapter 3 quiz section**

Question 1

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Question 2

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Question 3

Graphical user interface, text, application, email, Teams

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Question 4

**Graphical user interface, text, application, email

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Question 5

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Question 6

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Question 7

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Question 8

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Question 9

Graphical user interface, text, application, email, Teams

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Question 10

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Question 11

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**Write transact-SQL commands section**

The fourth part, Adam teachs us how to use the SSMS to manipulate our data. For example, we can create, update and add data into a database with Transact-SQL commands. Every step’s introduce is clear and follow his steps. And no mistakes pop out. However, he just lists a few SQL commands, so we need to learn other syntax by ourselves. But he gives a hint, we can use the document to learn it. All in all, this is a pleasure procedure even for the beginner. They can totally understand what they are doing and how to manipulate the data.

The followed picture shows that I add two people name into guests table that I created before. Then I select all attributes from this table. It successfully present that these two new name in the table.

Graphical user interface, text, application

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**Chapter 4 quiz section**

Question 1

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Question 2

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Question 3

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Question 4

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Question 5

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Question 6

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Question 7

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**Conclusion**

In the whole project, I find that all are the old knowledge. Actually, we have learned at our first assignment except some concept or how to use this new SQL software. Each test is truly help us review what we learn. I think it is good for the beginner who want to start to learn SQL. However, Adam just mentioned part of the database management and usage, so it is not enough to grasp this skill. We need to dive deep and find more tutorial videos or documents.

**Appendix**

**Text

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Figure 1