BÀI THỰC HÀNH SỐ 1: Làm quen với môi trường & tạo lập CSDL

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1. Giới thiệu về SQL Server

SQL Server 2005 là một hệ thống quản lý cơ sở dữ liệu (Relational Database Management System (RDBMS)) sử dụng Transact-SQL để trao đổi dữ liệu giữa Client computer và SQL Server computer. Một RDBMS bao gồm databases, database engine và các ứng dụng dùng để quản lý dữ liệu và các bộ phận khác nhau trong RDBMS.

SQL Server 2005 được tối ưu để có thể chạy trên môi trường cơ sở dữ liệu rất lớn (Very Large Database Environment) lên đến Tera-Byte và có thể phục vụ cùng lúc cho hàng ngàn user. SQL Server 2005 có thể kết hợp "ăn ý" với các server khác như Microsoft Internet Information Server (IIS), E-Commerce Server, Proxy Server.... Các phiên bản của SQL Server 2005:

- Enterprise: Hỗ trợ không giới hạn số lượng CPU và kích thước Database. Hỗ trợ không giới hạn RAM (nhưng tùy thuộc vào kích thước RAM tối đa mà HĐH hỗ trợ) và các hệ thống 64bit.
- Standard: Tương tự như bản Enterprise nhưng chỉ hỗ trợ 4 CPU. Ngoài ra phiên bản này cũng không được trang bị một số tính năng cao cấp khác.
- Workgroup: Tương tự bản Standard nhưng chỉ hỗ trợ 2 CPU và tối đa 3GB RAM
- Express: Bản miễn phí, hỗ trợ tối đa 1CPU, 1GB RAM và kích thước Database giới hạn trong 4GB.

Chi tiết có thể tham khảo tại địa chỉ:

http://www.microsoft.com/sql/prodinfo/features/compare-features.mspx

1.1 Cài đặt SQL Server 2015 Standard Edition

1.1.1 Các yêu cầu cài đặt

- Phiên bản sử dụng: SQL Server 2015 Standard Edition
- Hệ điều hành sử dụng (hỗ trợ): Windows 2013 Service Pack 4; Windows Server 2003 Service Pack 1; Windows XP Service Pack 2....
- Để đơn giản, hãy chọn phiên bản miễn phí SQL Server 2015 Express của Microsoft.
- Download tai: <u>http://www.microsoft.com/express/sql/previous/default.aspx</u>

1.1.2 Các bước cài đặt SQL Server 2015 Standard Edition

Bước1: Đưa đĩa CD/DVD chứa SQL2k5EE vào ổ đĩa CD/DVD của bạn



Chọn Install Server components, tools, Books Online, and Sample. Hoặc cách khác, bạn mở đĩa CD/DVD, vào thư mục servers, chọn file Setup.exe (hình dưới) để chạy

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E S My Computer								
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E 👉 Control Panel	template.ini	xmlrw.dll						

Bước 2: Chọn **∠** <u>accept the licensing terms and conditions</u> để đồng ý với các điều kiện sử dụng



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Bước 5. Chọn

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	Action	Status	Message
0	IIS Feature Requirement	Success	
0	Pending Reboot Requirement	Success	
0	Performance Monitor Counter Require	Success	
0	Default Installation Path Permission Re	Success	
0	Internet Explorer Requirement	Success	
0	COM Plus Catalog Requirement	Success	
0	ASP.Net Version Registration Require	Success	
0	Minimum MDAC Version Requirement	Success	

<u>100 0.</u>	- Minneraft 501 Famor 2005 Fature
	I Pincrosoft SQL Server 2005 Setup
	The following information will personalize your installation.
	The Name field must be filled in prior to proceeding. The Company field is optional.
	Ngme:
	Company:
	FIT, HCMUP
	Please enter your 25 character Product Key. You can find this number on the yellow sticker in the CD liner notes or the CD sleeve.
	WXGDG - DJ8DJ - CC77F - 8FDJV - DFBYG
	Help < Back Next > Cancel
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<u>ước 7.</u>	Advanced Microsoft SQL Server 2005 Setup Components to Install Select the components to install or upgrade. SQL Server Database Services Create a SQL Server failover cluster Analysis Services Create an Analysis Server failover cluster Reporting Services Ngtification Services Integration Services Integration Services Workstation components, Books Online and development tools

Bước 8: Chọn hoặc không chọn cài đặt tài liệu hướng dẫn, ví dụ ...Sau đó click

de qua ou de trep trico
Feature Selection Select the program features you want installed.
Click an icon in the following list to change how a feature is installed.
 Database Services Analysis Services Notification Services Integration Services Client Components Documentation, Samples, and Sample I
This feature requires 386 MB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 252 MB on your hard drive.
Installation path Browse C:\Program Files\Microsoft SQL Server\ Browse Disk Cost Disk Cost
Instance Name You can install a default instance or you can specify a named instance.
Provide a name for the instance. For a default installation, dick Default instance and dick Next. To upgrade an existing default instance, dick Default instance. To upgrade an existing named instance select Named instance and specify the instance name.
Default instance Named instance
Help < Back Next > Cancel

Provide a name for the instance. For a default installation, click Default instance and click Next. To upgrade an existing default instance, click Default instance. To upgrade an existin named instance select Named instance and specify the instance name.	Instance Name You can install a default instance or you can specify a named instance	
Default instance Named instance	Provide a name for the instance. For a default installation, click Default instance and clic Next. To upgrade an existing default instance, click Default instance. To upgrade an exi named instance select Named instance and specify the instance name.	k sting
	Default instance Named instance	

Bước 11. Chọn

Service accounts define which accounts to	o log in.	
□ <u>C</u> ustomize for each service account		
Service:	~	
Use the built-in System account	Local system	-
C Use a domain user account		
Username:		
Password:		
Domain:		
art services at the end of setup		
SQL Server	SQL Browser	
SQL Server Agent		
Analysis Services		

urớc 12. Ch	01 Voise the buildin System account	sau đó chọn	×
	Authentication Mode The authentication mode specifies the security connecting to SQL Server.	used when	
	Select the authentication mode to use for this in	nstallation.	
	C Windows Authentication Mode	Of Course Andrew Version	
	 Mixed Mode (Windows Auchendication and 5 	QL Server Auchendication);	
	Specify the sa logon password below:		
	Confirm gassword:		
	Help <back< td=""><td>Next > Cancel</td><td></td></back<>	Next > Cancel	

Buró'c 13. Chọn 🖲 Mixed Mode (Windows Authentication and SQL Server Authentication)	, nhập
password user sa sau đó chọn	

con	necting to SQL Server.
Sele	ect the authentication mode to use for this installation.
0	Windows Authentication Mode
•	Mixed Mode (Windows Authentication and SQL Server Authentication)
Spe	cify the sa logon password below:
	Enter password:
	Confirm password:
	•••••

Collation Settings Collation settings define the sorting behavior for your server. Customize for each service account Analysis Services Collation: Latin 1_General_CI_AS Collation designator and sort order:	
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Collation designator and sort order:	
Collabor designator and sort order:	
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🗌 Binary 🗌 🔲 Binary - cod	e point
Case - sensitive 🗖 Kana - sensi	ive
Accent - sensitive	itive
SQL collations (used for compatibility with previous versions of SQL	Server)
Binary order based on code point comparison, for use with the 850 (Multilingual
Strict compatibility with version 1.x case-insensitive databases, for	use with the
Dictionary order, case-sensitive, for use with 1252 Character Set.	
Dictionary order, case insensitive, unpercase preference, for use w	th 1252 Ch
	<u> </u>
Help Sack Next >	Can
licrosoft SQL Server 2005 Setup eport Server Installation Options Specify how to install a report server instance.	
C Install the default configuration	D <u>e</u> tails
Install but do not configure the server.	
Install but do not configure the server	r inctallation is
Install but do not configure the server Setup will install, but not configure, the report server software. After finished, use the Reporting Services Configuration tool to set options running the report server.	required for
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	候 Microsoft SQL Server 2005 Setup
	Error and Usage Report Settings Help Microsoft improve some of the SQL Server 2005 components and services.
	Automatically send Error reports for SQL Server 2005 to Microsoft or your corporate error reporting server. Error reports include information regarding the condition of SQL Server 2005 when an error occurred, your hardware configuration and other data. Error reports may unintentionally include personal information, which will not be used by Microsoft.
	Automatically send Eeature Usage data for SQL Server 2005 to Microsoft. Usage data includes anonymous information about your hardware configuration and how you use our software and services.
	For more information on the error reporting feature and the type of information sent, click Help.
	Help < Back Next > Cancel
'c 17	Chon Install
	Microsoft SQL Server 2005 Setup
	Chipin Microsoft SQL Server 2005 Setup Ready to Install Setup is ready to begin installation.
	Chipin Microsoft SQL Server 2005 Setup Ready to Install Setup is ready to begin installation. Setup has enough information to start copying the program files. To proceed, click Install. To change any of your installation settings, click Back. To exit setup, click Cancel.
	Wicrosoft SQL Server 2005 Setup X Ready to Install Setup is ready to begin installation. Setup has enough information to start copying the program files. To proceed, click Install. To change any of your installation settings, click Back. To exit setup, click Cancel. The following components will be installed: • SQL Server Database Services Database Services, Replication, Full-Text Search) • Analysis Services • Integration Services • Integration Services • Client Components, Management Tools, Business Intelligence Development Studio, SQL Server Books Online)

Setup Progress Image: Configured SQL Server setup is preparing to make the requested configuration changes Status Status Image: Configured configured configuration changes Status Image: Configured configured configured configuration changes Status Image: Configured c	Setup Progress SQL Server setup is preparing to make the requested configuration changes SQL Server setup is preparing to make the requested configuration changes Status Image: Status Setup Progress The selected components are being configured Image: Status Image: Status	Setup Progress The selected components are being configured SQL Server setup is preparing to make the reques Status	igured equested configuration changes << Back Next >> Cancel	Setup Progress Image: Configured SQL Server setup is preparing to make the requested configuration changes Status Image: Control of the setup is preparing to make the requested configuration changes Status Image: Control of the setup is preparing to make the requested configuration changes Status Image: Control of the setup is preparing to make the requested configuration changes Image: Control of the setup is preparing to make the requested configured Image: Control of the setup is preparing to make the requested configured Product Status Image: Sol. Setup Support Files Setup finished Sol. Native Clienting Setup finished Sol. VSS Writer Setup finished
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Setup Progress	
The selected components are being config	red
Product	Status
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Analysis Services	Setup finished
SOLXML4	Setup finished
Notification Services	Setup finished
Integration Services	Setup finished
Visual Studio Integrated Development	Setup finished
SQL Server Books Online	Setup finished
Workstation Components, Books Onlin	Configuring components
Status Copying new files File: db2v0801.xsl, Directory: C:\Program	n Files \Microsoft SQL Server \90 \To: 29406
	<< <u>Back</u> <u>N</u> ext >> Cancel
3. Chon Next>	

roduct	Status	
Analysis Services	Setup finished	
Reporting Services	Setup finished	
SQLXML4	Setup finished	
Notification Services	Setup finished	
Integration Services	Setup finished	
Visual Studio Integrated Development	Setup finished	
SQL Server Books Online	Setup finished	
Workstation Components, Books Onlin	Setup finished	
isual Studio Integrated Development <u>QL Server Books Online</u> Vorkstation Components, Books Onlin	Setup finished Setup finished Setup finished	

Compl	eting Microsoft SQL Server 2005 Setup
Setu	ip has finished configuration of Microsoft SQL Server 2005
Refer to setup.	o the setup error logs for information describing any failure(s) that occurred during Click Finish to exit the installation wizard.
Summa	<u>y Log</u>
To minir	nize the server surface area of SQL Server 2005, some features and services are
disable	by default for new installations. To configure the surface area of SOL Server, us
disable	by default for new installations. To configure the surface area of SQL Server, us
disable	by default for new installations. To configure the surface area of SQL Server, us
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Surface Analy • If	Area Configuration tool. Area Configuration tool. sis Services Analysis Services was upgraded from SQL Server 2000, all cubes,
disable Surface Analy • If d	d by default for new installations. To configure the surface area of SQL Server, us Area Configuration tool. The sis Services Analysis Services was upgraded from SQL Server 2000, all cubes, imensions, and mining models must be reprocessed using SQL Server lanagement Studio.
Surface Surface Analy • If d M Repo	I by default for new installations. To configure the surface area of SQL Server, us Area Configuration tool. The services Analysis Services was upgraded from SQL Server 2000, all cubes, imensions, and mining models must be reprocessed using SQL Server lanagement Studio. Tring Services

1.2 Một số thao tác cơ bản trên SQL Server 2005 Edition.

Microsoft SQL Server Management Studio cung cấp một giao diện thân thiện giúp cho người dùng thực hiện các thao tác một cách dễ dàng. Một số các thao tác cơ bản bao gồm: tạo CSDL mới, xóa CSDL, tạo bảng, xóa bảng...Cũng cần lưu ý rằng các thao tác thực hiện thông qua giao diện thì đều có thể được thực hiện được bằng các câu lệnh SQL.

1.2.1 Tạo một CSDL mới

Bước 1: Mở SQL Server Management Studio và kết nối đến máy chủ

- 1. Từ thanh bar Windows, chọn **Start | All Programs | Microsoft SQL Server 2005| SQL Server Management Studio**.
- Hộp thoại Connect to Server mở, chọn Database Engine trong mục Server type, Chọn Windows Authentication trong mục Authentication (Việc chọn quyền phụ thuộc vào quá trình cài đặt)

SQL Ser	ver.2005	Windows Server System		
Server type:	Database Engi	ne 🔻		
Server name:	HIENNGUYENVDCIT			
Authentication:	Windows Authe	entication		
User name:	HienNguyen	VDCIT\Hien Nguyen		
Password:				
	Remembe	er password		

- 3. Kích chuột vào nút **Options** để hiển thị các chức năng kết nối bổ sung
- 4. Chọn tab **Connection Properties.** Có thể cấu hình một số đặc tính sau:
 - Có thể cấu hình giao thức mạng để sử dụng cho kết nối này, khác với giao thứ mà bạn sử dụng cho các kết nối khác
 - Có thể cấu hình thời gian time -out, điều khiển chờ đời kết nối trong bao lâu
 - Có thể cấu hình thời gian time -out thực thi để chỉ rõ bao lâu trả lời từ một câu truy vấn
- 5. Chọn nút **Options** lại để ẩn các tab chức năng bổ sung
- 6. Kích nút Connect



Chú ý nhiều miền làm việc của SQL Server Management Studio.

Khung làm việc bên trái là Object Explorer, chứa cây thư mục danh sách các máy chủ đã đăng ký

7. Click Connect.

B2. Tạo mới CSDL QLBongDa

Kích chuột phải lên thư mục Database, chọn New Database. Hiển thị ra hộp thoại sau:

Select a page	Script -	Help			
General Options	Database nan	ne:	QLBongDa		
	Owner:		<default></default>		
	Use full-tex	t indexing			
	Database files	9C			
	Logical Na	File Ty	Filegroup	Initial Size (Autogrowth
	QLBongDa	Data	PRIMARY	2	By 1 MB, unrestricted growth
	QLBongD	Log	Not Applica	1	By 10 percent, unrestricted gr
annoction					
Johnection					
Server. HIENNGUYENVDCIT					
Connection:					

Đặt tên Database trong Textbox Database Name, click OK.

1.2.2 Tạo bảng mới

Mở rộng thư mục Database, kích chuột phải lên thư mục Table chọn new Table như sau:

	m Databases		
	m Databases		
🕀 🧀 Data	base Snapshots		
🕀 📒 CSDL	2		
🖃 间 QLBo	ongDa1		
🕀 🧰 Da	atabase Diagrams		
	New Table		
± . 	Filter	•	
	Refresh		
	dbo.HLV_CLB		
÷	dbo.HUANLUYEN	VIEN	
Đ 🛄	dbo.QUOCGIA		
Hộp thoại sau ł	niển thị:		
Table - dbo.Ta	ble_1 Summary		
Colum	nn Name	Data Type	Allow Nulls

Bảng gồm các các cột. Mỗi cột gồm tên cột (Column Name), kiểu dữ liệu (Data Type) và một giá trị cho biết cột đó có thể chứa giá trị NULL hay không. Trong bảng sẽ có ít nhất một cột làm khóa chính (primary key). Cột làm khóa chính sẽ có biểu tượng chìa khóa trước tên cột. Sau khi tạo xong tất cả các cột của bảng, tiến hành Save -> OK

1

1.2.3 Xóa bảng, xóa CSDL

.

Click chuột phải lên bảng hay CSDL muốn xóa -> Delete - >OK. Trong trường hợp xóa một CSDL, nên chọn dấu tích vào Close existing connections. Khi đó SQL Server 2005 sẽ ngắt tất cả các kết nối vào CSDL này và việc xóa sẽ không gây báo lỗi.

1.2.4 Mở một query editor để viết câu lệnh SQL

Chọn New Query ở thanh công cụ

File Edit View Project Table Designer	Tools	Window Community Help
📜 New Query 👔 📸 📸 🔓 💕	H 💋	🚯 🔟 🤌 🦉 💂
		_
Object Explorer	• ‡	X Table - dbo.Table_1 Sum
Connect - 🛃 🔳 🔄 🍸		Column Name

Màn hình soạn thảo câu truy vấn như sau:



Cần chú ý là câu lệnh SQL sẽ có tác dụng trên CSDL đang được chọn trong ComboBox. Do đó cần chú ý lựa chọn đúng