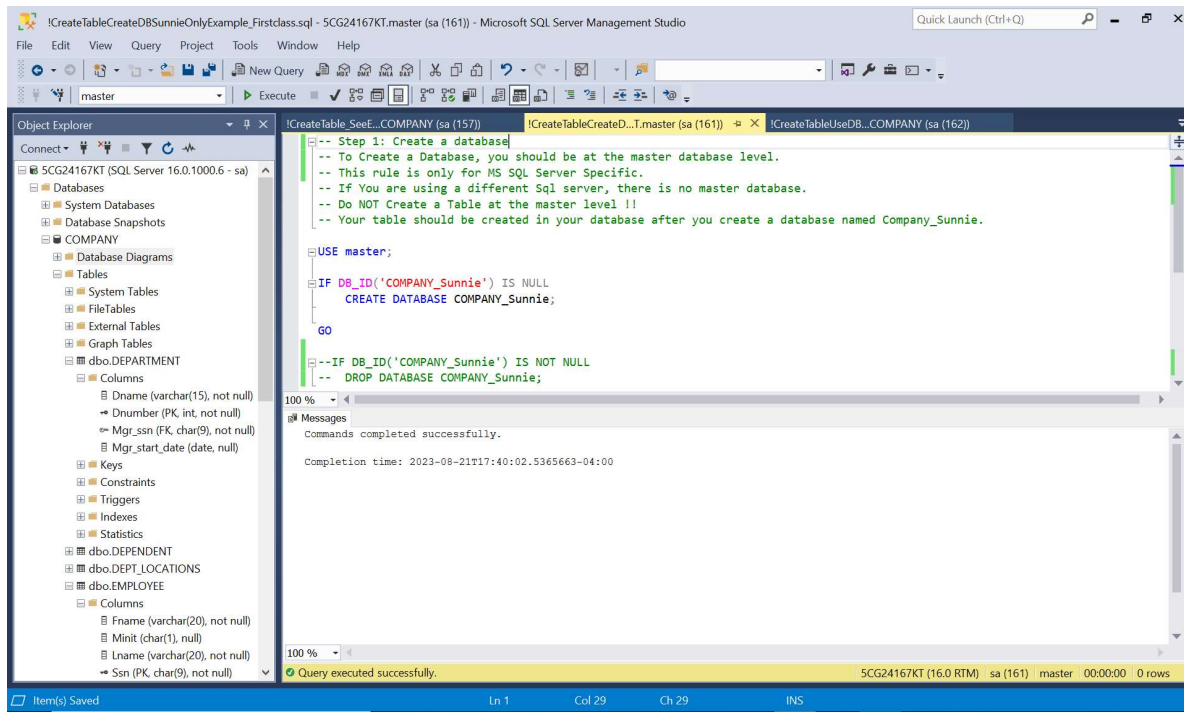


How to Create a Database and a Table in MS SQL Server

CIS 430/530 Database System

Sunnie Chung

Step1: Create a Database



Step2: Use the existing Database to enter inside the database space with Use Command

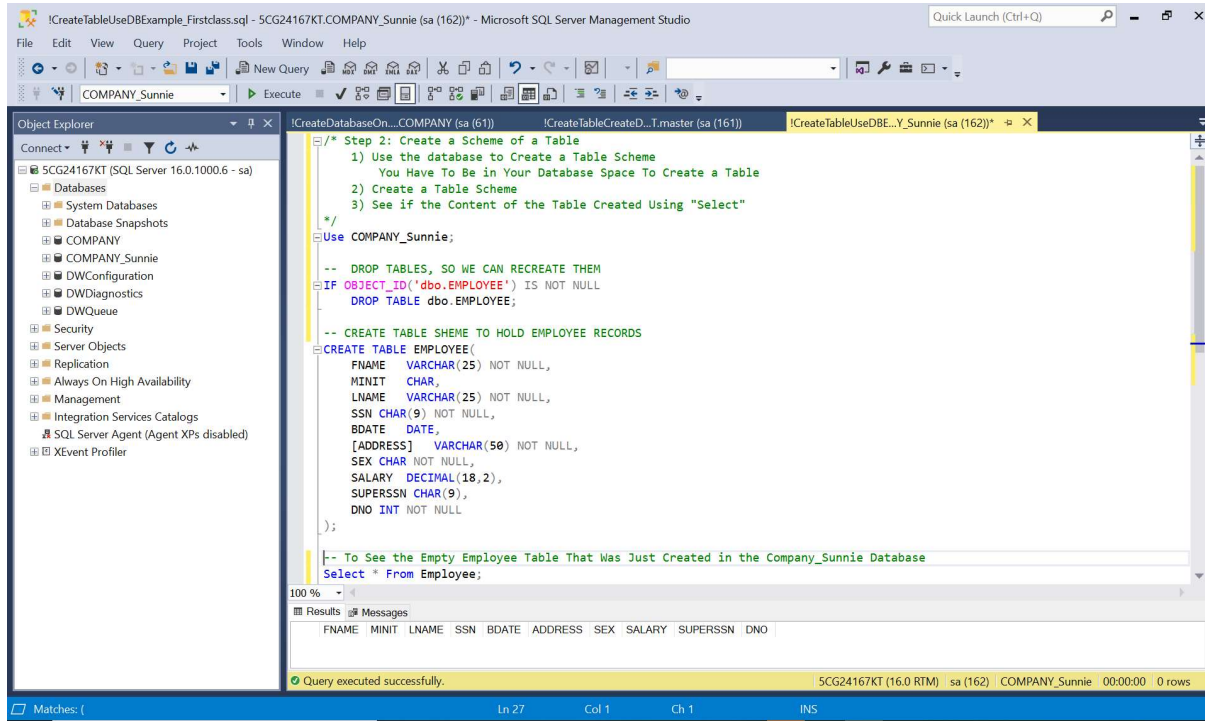
Next, How to Create a Table in the Database from a SQL Server

Always in Two Steps:

1. Create a Scheme in DDL (Data Definition Language): Create Table
2. Insert the Records to the Table with DML (Data Manipulation Language): Insert, Update, Delete

Therefore,

Step 3 to Create a Scheme in DDL (Data Definition Language) with Create Table



Step 4: Insert the Records to the Table with DML (Data Manipulation Language): Insert, Update, Delete

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the Object Explorer with the following structure:

- 5CG24167KT (SQL Server 16.0.1000.6 - sa)
 - Databases
 - System Databases
 - Database Snapshots
 - COMPANY
 - COMPANY_Sunnie
 - DWConfiguration
 - DWDiagnostics
 - DWQueue
 - Security
 - Server Objects
 - Replication
 - Always On High Availability
 - Management
 - Integration Services Catalogs
 - SQL Server Agent (Agent XPs disabled)
 - XEvent Profiler

The right pane shows a query window with the following SQL script:

```
-- Make Sure That Your Current Database is COMPANY_Sunnie Where The Table EMPLOYEE Was Created
-- Use COMPANY_Sunnie:
-- INSERT EMPLOYEE RECORDS INTO the EMPLOYEE TABLE
INSERT INTO EMPLOYEE VALUES('James', 'E', 'Borg', '888665555', '10-Nov-1927', '975 Fire Oak, Humble, TX', 'M',
55000, NULL, 1);
INSERT INTO EMPLOYEE VALUES('Jennifer', 'S', 'Wallace', '987654321', '20-Jun-1931', '291 Berry, Bellaire, TX', 'F',
43000, '888665555', 4);
INSERT INTO EMPLOYEE VALUES('Franklin', 'T', 'Wong', '333445555', '08-Dec-1945', '638 Voss, Houston, TX', 'M',
40000, '888665555', 5);
INSERT INTO EMPLOYEE VALUES('John', 'B', 'Smith', '123456789', '9-Jan-1955', '731 Fondren, Houston, TX', 'M',
30000, '987654321', 5);
INSERT INTO EMPLOYEE VALUES('Ahmad', 'V', 'Jabbar', '987987987', '29-Mar-1959', '980 Dallas, Houston, TX', 'M',
25000, '987654321', 4);
INSERT INTO EMPLOYEE VALUES('Alicia', 'J', 'Zelaya', '999887777', '19-Jul-1958', '3321 Castle, Sprig, TX', 'F',
25000, '987654321', 4);
INSERT INTO EMPLOYEE VALUES('Ramash', 'K', 'Narayan', '666884444', '15-Sep-1952', '975 Fire Oak, Humble, TX', 'M',
38000, '333445555', 5);
INSERT INTO EMPLOYEE VALUES('Joyce', 'A', 'English', '453453453', '21-Jul-1962', '5631 Rice, Houston, TX', 'M',
30000, '333445555', 5);
GO
-- To See the Content of the Employee Table That Was Just Inserted with 8 Records
Select * From Employee;
```

The results grid below the query shows 8 rows of data:

	FNAM	MINI	LNAM	SSN	BDATE	ADDRESS	SEX	SALARY	SUPERSSN	DNO
1	James	E	Borg	888665555	1927-11-10	975 Fire Oak, Humble, TX	M	55000.00	NULL	1
2	Jennifer	S	Wallace	987654321	1931-06-20	291 Berry, Bellaire, TX	F	43000.00	888665555	4
3	Franklin	T	Wong	333445555	1945-12-08	638 Voss, Houston, TX	M	40000.00	888665555	5
4	John	B	Smith	123456789	1955-01-09	731 Fondren, Houston, TX	M	30000.00	987654321	5
5	Ahmad	V	Jabbar	987987987	1959-03-29	980 Dallas, Houston, TX	M	25000.00	987654321	4
6	Alicia	J	Zelaya	999887777	1958-07-19	3321 Castle, Sprig, TX	F	25000.00	987654321	4
7	Ramash	K	Narayan	666884444	1952-09-15	975 Fire Oak, Humble, TX	M	38000.00	333445555	5
8	Joyce	A	English	453453453	1962-07-21	5631 Rice, Houston, TX	M	30000.00	333445555	5

The status bar at the bottom indicates: Query executed successfully. 5CG24167KT (16.0 RTM) sa (156) COMPANY_Sunnie 00:00:00 8 rows

How to Remove a Table from the Server

Always Two Steps:

1. Remove the Records of the Table with **DELETE**
2. Remove the Scheme of the Table with **DROP**

!CreateTable_DeleteTable_Firstclass.sql - 5CG24167KT.COMPANY_Sunnie (sa (154)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

COMPANY_Sunnie

Object Explorer

- Connect
- 5CG24167KT (SQL Server 16.0.1000.6 - sa)
- Databases
 - System Databases
 - Database Snapshots
 - COMPANY
 - COMPANY_Sunnie
 - DWConfiguration
 - DWDiagnostics
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 - XEvent Profiler

Query Editor

```
--How to Remove a Table from the Server

use COMPANY_Sunnie;
-- see the current content of the table
select * from EMPLOYEE;

-- To remove all the records
delete EMPLOYEE;

-- To check the table is empty now after delete
select * from EMPLOYEE;

-- To Remove the table scheme from the server
drop table EMPLOYEE;
```

Results

	FNNAME	MINIT	LNAME	SSN	BDATE	ADDRESS	SEX	SALARY	SUPERSSN	DNO
1	James	E	Borg	888665555	1927-11-10	975 Fire Oak, Humble, TX	M	55000.00	NULL	1
2	Jennifer	S	Wallace	987654321	1931-06-20	291 Berry, Bellaire, TX	F	43000.00	888665555	4
3	Franklin	T	Wong	333445555	1945-12-08	638 Voss, Houston, TX	M	40000.00	888665555	5
4	John	B	Smith	123456789	1955-01-09	731 Fondren, Houston, TX	M	30000.00	987654321	5
5	Ahmad	V	Jabbar	987987987	1959-03-29	980 Dallas, Houston, TX	M	25000.00	987654321	4
6	Alicia	J	Zelaya	999887777	1958-07-19	3321 Castle, Spring, TX	F	25000.00	987654321	4
7	Ramash	K	Narayan	666884444	1952-09-15	975 Fire Oak, Humble, TX	M	38000.00	333445555	5
8	Joyce	A	English	453453453	1962-07-21	5631 Rice, Houston, TX	M	30000.00	333445555	5

Query executed successfully. 5CG24167KT (16.0 RTM) sa (154) COMPANY_Sunnie 00:00:00 8 rows