

Experiment 1 Creating and managing the database

1. Experimental objectives

- 1) Be familiar with the window of SQL Server Management Studio.
- 2) Master the method of creating database.
- 3) Master the methods of managing databases.

2. Experimental environment

SQL Server 2008

3. Experimental key points

- 1) Activate SQL Server Management Studio window.
- 2) Create a new database named XSCJ.
- 3) Modify the XSCJ database.

4. Experimental content

- 1) Open the 'SQL Server Management Studio' window, expand the server in the 'Object Explorer', then right-click the 'Database' node, click the 'New Database' command, finally, the 'New Database' dialog box will appear.
- 2) After entering the database 'XSCJ' in the 'Database Name' box of the 'New Database' dialog box, you can create a database with the default size by clicking the 'OK' button.
- 3) Right-click the 'XSCJ' database, and select the 'Properties' command in the pop-up shortcut menu, the 'Database Properties' dialog box will appear.
- 4) You can add or delete database files by click the 'File' tab, and click the 'OK' button to complete the database modification.

Experiment 2 Creating table and entering data

1. Experimental objectives

- 1) Be familiar with the operation of creating data tables.
- 2) Master the operation of creating data tables.
- 3) Master the operation of data input and modification.

2. Experimental environment

SQL Server 2008

3. Experimental key points

- 1) Create student status table XSQK, class schedule table KC, and the relationship between student and class XS_KC in the XSCJ database, and the structure of those tables are shown in tables 2-1, 2-2 and 2-3.

Table 2-1 XSQK

Column name	Data type	NULL or not	Default	Constraint
stu_id	Char(6)	NOT NULL		Primary key
sname	Char(8)	NOT NULL		unique
gender	char(1)	NOT NULL	1	0 or 1
birthday	datetime(4)	NOT NULL		
department	Char(10)	NOT NULL		
major	Char(10)	NOT NULL		
phone	Char(11)			11 digitals
total_credits	Tinyint(1)			0~200
remarks	Text(20)			

Table 2-2 KC

Column name	Data type	NULL or not	Default	identifier	Constraint
serial_num	Int(4)			The initial value is incremented by 1	
course_id	Char(3)	NOT NULL			Primary key

cname	Char(20)	NOT NULL			
teacher	Char(8)				
semester	Tinyint(1)	NOT NULL	1		1~6
class_hour	Tinyint(1)				
credit	Tinyint(1)				

Table 2-3 XS-KC

Column name	Data type	NULL or not	Default	Constraint	
stu_id	Char(6)	NOT NULL		Foreign key, referenced from XSQK	Primary key
course_id	Char(3)	NOT NULL		Foreign key, referenced from KC	
score	Tinyint(1)			0~100	
credit	Tinyint(1)				

- 2) Input data into the XSQK, KC and XS_KC tables respectively, the content of which is customized by the user.

3. Experimental content

- 1) Open 'SQL server Management Studio' window, click on the 'New Query' button in the 'standard' toolbar, and the interface as shown in the figure will appear.
- 2) In the 'SQL Editor' toolbar, click the drop-down button on the right side of 'Available Database' to switch the current database to 'XSCJ' database.
- 3) In the query window, input the query statements of creating tables.
- 4) In the 'Object Explorer', unfold the database 'XSCJ', right-click the 'table' node, and click the 'refresh' command in the pop-up shortcut menu, you can see the 3

tables that have been created above.

- 5) Right-click each table and chose the 'create the first 200 rows' command in the drop-down menu, and input data for each table, note the input order of the three tables.