



CHAPTER 7: DATA DEFINING LANGUAGE

2023

CHAPTER 7: DATA DEFINING LANGUAGE

Content:

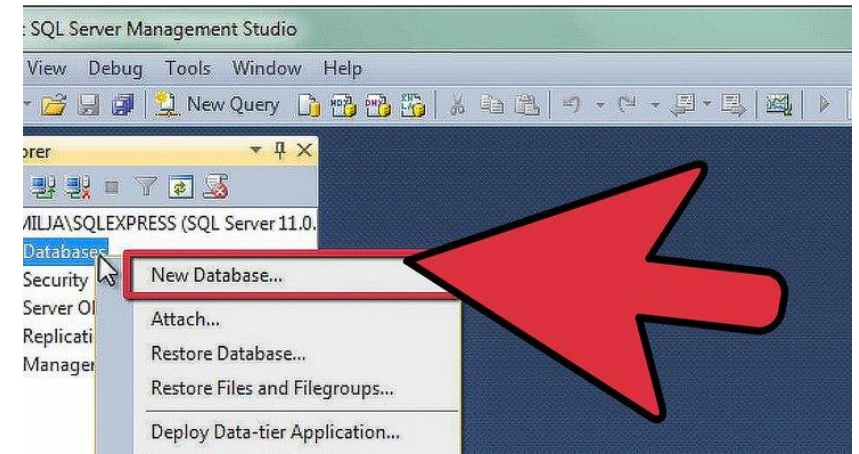
1. Create database
2. Use Clause
3. Create tables
4. Insert into
5. Drop Table/Database
6. Truncate table

CREATE DATABASE

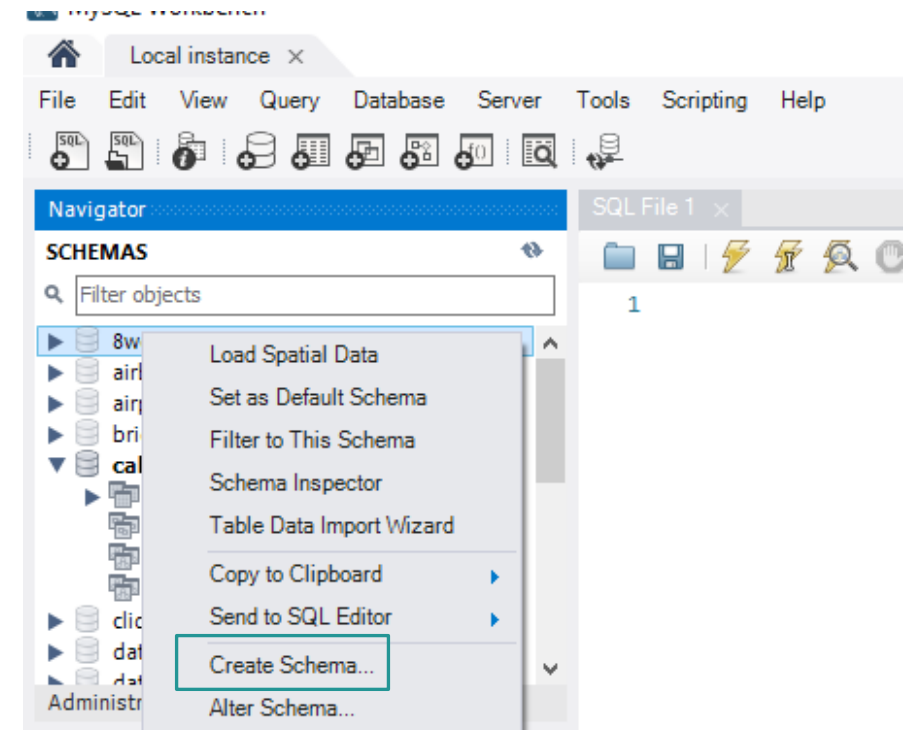
`CREATE DATABASE databasename;`

`CREATE DATABASE testDB;`

SQL Server



MySQL



USE

```
USE DatabaseName;
```

```
USE testDB;
```

CREATE TABLE

Create table tablename
(columnName datatype ,
ColumnName datatype);

```
CREATE TABLE Persons (  
    PersonID int,  
    LastName varchar(255),  
    FirstName varchar(255),  
    Address varchar(255),  
    City varchar(255),  
);
```

CREATE TABLE


Create table cats

```
(  
  CatID int not null auto_increment ,  
  Name varchar(20) NOT NULL,  
  age int NOT NULL ,  
  dob date default getdate() ,  
  primary key(CatID)  
)
```

OR

Create table cats

```
(  
  CatID int not null auto_increment Primary key,  
  Name varchar(20) NOT NULL ,  
  age int NOT NULL ,  
  dob date default getdate()  
)
```



```
CREATE TABLE CUSTOMERS
(
    ID INT NOT NULL,
    NAME VARCHAR (20) NOT NULL,
    AGE INT NOT NULL ,
    ADDRESS CHAR (25) ,
    SALARY DECIMAL (18 , 2),
    PRIMARY KEY (ID)
);
```

INSERT INTO

Once your table is created you need to add data to it. This is how we do that:

```
INSERT INTO table_name (column1 , column2, column3 ,...)
VALUES ('value1' , 'value2' , 'value3' ...);
```

```
INSERT INTO students (first_name, last_name , email , phone , birthdate)
VALUES ("Peter" , "Rabbit" , "peter@rabbit.com" ,"555-6666" , "2002-06-24");
```

```
INSERT INTO students (first_name, last_name , email , phone, birthdate)
VALUES ("Alice" , "Wonderland" ,"alice@wonderland.com" ,"555-4444" , "2002-07-04");
```




More than 1 record:

```
INSERT INTO employees (employee_id, last_name , first_name)  
VALUES (10,'Anderson','Sarah') , (11,'Johnson','Dale');
```

INSERT INTO

(1)

```
INSERT INTO table_name (column1 column2 column3 ...)  
VALUES ('value1', 'value2', 'value3' ...);
```

(2)

```
INSERT INTO table_name  
VALUES ('value1', 'value2', 'value3' ...);
```

```
INSERT INTO Customers (CustomerName, ContactName, Address, City ,PostalCode, Country)  
VALUES ( 'Cardinal', ' Tom B. Erichsen', 'Skagen 21' , 'Stavanger' , '4006' , 'Norway' );
```

```
INSERT INTO Customers (CustomerName , City ,Country)  
VALUES ( 'Cardinal' , 'Stavanger', 'Norway' );
```



```
INSERT INTO Employees
```

```
(LastName , FirstName , Title , TitleOfCourtesy, BirthDate, HireDate , Address ,City  
Region , PostalCode , Country , HomePhone, Extension)
```

```
VALUES ( 'Dunn', 'Nat' , 'Sales Representative', 'Mr.', '1970-02-19', '2004-01-  
15', 4933, 'Jamesville Rd.' , 'Jamesville' , 'NY' , 13078 , 'USA' , '315-555-  
5555', 130 );
```

Practice CREATE / INSERT

1. Create a Database called StudentsDb
2. Create a table "Students_tbl" in your database with suitable data types that will take the following student credentials: Student_ID(5) Name(20) Surname(20) , Age , Grade , Subject(20)
3. Add the following students and their credentials to the above created table:

Student_ID	Name	Surname	Age	Grade	Subject
STU01	Mat	Burger	16	10	Science
STU02	Steven	Louis	12	7	Economics
STU03	Kamo	Segau	15	6	Mathematics

Practice CREATE / INSERT

A school hockey club has been created “Wild Cats” and you are the administrator of the table for students enrolled in the club. The table should be created in the StudentsDb.

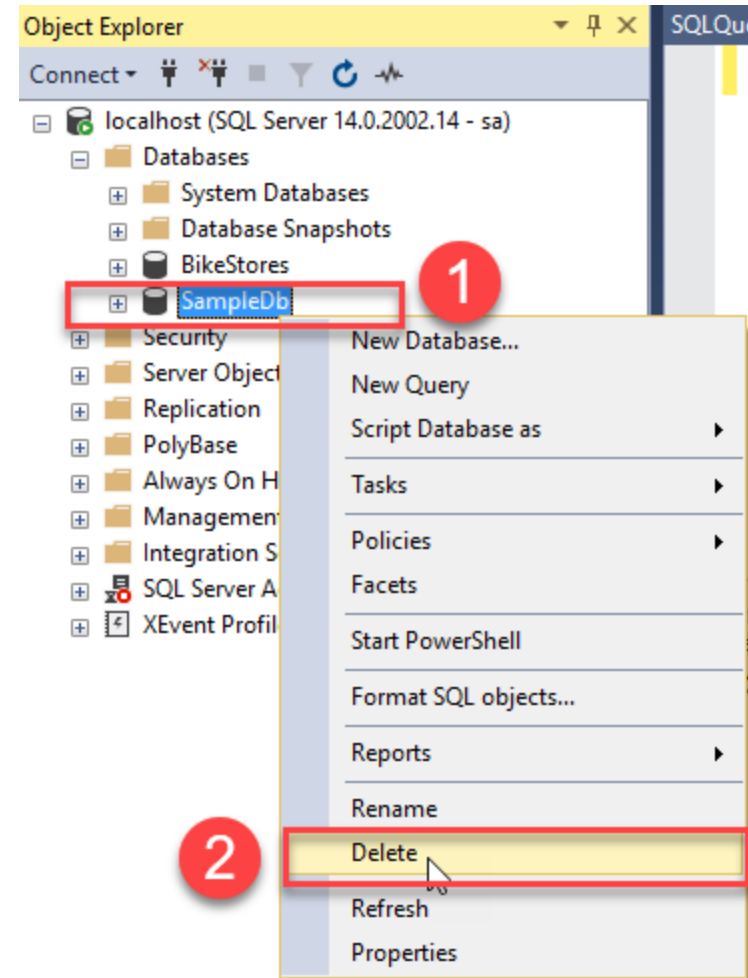
1. Create a table for “Wild_Cats” in your database with suitable data types that will take the following student credentials: Student_ID(5) , Membership_Fee(10)
2. Add the following students and their credentials to the above created table:

Student_ID	Membership_Fee(Rands)
STU01	R260
STU02	R300

DROP DATABASE

DROP DATABASE *databasename;*

DROP DATABASE testDB;



DROP TABLE

```
DROP TABLE table_name;
```

```
DROP TABLE Shippers;
```

TRUNCATE

TRUNCATE TABLE *table_name*;

supplier_id	supplier_name	city	state
100	Microsoft	Redmond	Washington
200	Google	Mountain View	California
300	Oracle	Redwood City	California
400	Kimberly-Clark	Irving	Texas
500	Tyson Foods	Springdale	Arkansas
600	SC Johnson	Racine	Wisconsin
700	Dole Food Company	Westlake Village	California
800	Flowers Foods	Thomasville	Georgia
900	Electronic Arts	Redwood City	California

Enter the following TRUNCATE TABLE statement:

```
TRUNCATE TABLE suppliers;
```

Then select the data from the *suppliers* table again:

```
SELECT * FROM suppliers;
```

These are the results that you should see:

supplier_id	supplier_name	city	state