

## Creating Database in Microsoft SQL Server

### NOTE

Relational models defines rows as records and columns as attributes

- Right Click on Databases
- Select New Database  
Enter database name (this will populate the Logical Name fields)  
Leave owner as <default> and you will be the owner or enter another login if needed
- Hit OK and the database will be created with the defaults.  
However, remember before choosing to create as the default settings aren't necessarily the best settings, so let's continue.

## Create Table Statement

- Tables are used to store data in the database.
- Tables are uniquely named within a database and schema. Each table contains one or more columns. And each column has an associated *data type* that defines the kind of data it can store e.g., numbers, strings, or temporal data.

SQL **data types** for mySQL, SQL Server & MS Access

Please see attached URL: [https://www.w3schools.com/sql/sql\\_datatypes.asp](https://www.w3schools.com/sql/sql_datatypes.asp)

Source: W3schools

### Ex. Create Table Statement

```
CREATE TABLE sales.visits (  
  visit_id INT PRIMARY KEY IDENTITY (1, 1),  
  first_name VARCHAR (50) NOT NULL,  
  last_name VARCHAR (50) NOT NULL,  
  visited_at DATETIME,  
  phone VARCHAR(20),  
  store_id INT NOT NULL,  
  FOREIGN KEY (store_id) REFERENCES sales.stores (store_id)  
);
```