

# Module 6: Database Objects

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## Demonstration: Creating Databases and Tables

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### Objectives

In this demonstration, you will see how to:

- Create a database.
- Create tables.
- Create schemas.
- Create a CHECK constraint.
- Create a DEFAULT constraint.
- Create a UNIQUE constraint.

### Preparation

1. Ensure that the 10985C-MIA-DC and 10985C-MIA-SQL virtual machines are running and then log on to 10985C-MIA-SQL as **ADVENTUREWORKS\Student** with the password **Pa\$\$w0rd**.
2. In the **D:\Demofiles\Mod06** folder, right-click **Setup.cmd**, and then click **Run as administrator**.
3. In the **User Account Control** dialog box, click **Yes**, and wait for setup to complete.

### Demonstration Steps

1. Open **Microsoft SQL Server Management Studio**, and then connect to the **MIA-SQL** instance of the database engine by using **Windows Authentication**.
2. On the **File** menu, point to **Open**, click **File**, browse to **D:\Demofiles\Mod06**, click **Create Tables.sql**, and then click **Open**.
3. In the query window, under the comment **Create a database and change database context**, review the Transact-SQL statements, select them, and then click **Execute**.
4. In the query window, under the comment **Create schemas**, review the Transact-SQL statements, select them, and then click **Execute**.
5. In the query window, under the comment **Create tables**, review the Transact-SQL statements, select them, and then click **Execute**.
6. In the query window, under the comment **Add CHECK constraint to Sales.Order**, review the Transact-SQL statement, select it, and then click **Execute**.
7. In the query window, under the comment **Test CHECK constraint**, review the Transact-SQL statement, select it, and then click **Execute**.
8. Review the results, and note that the insert fails because the order date is yesterday's date.

9. In the query window, under the comment **Add DEFAULT constraint to Person.CustomerDemographics**, review the Transact-SQL statement, select it, and then click **Execute**.
10. In the query window, under the comment **Test DEFAULT constraint**, review the Transact-SQL statements, select them, and then click **Execute**.
11. Review the results, and note that the insert succeeds and the default value 'Unknown' is entered.
12. In the query window, under the comment **Add UNIQUE constraint to Person.Employee**, review the Transact-SQL statement, select it, and then click **Execute**.
13. In the query window, under the comment **Test UNIQUE constraint**, review the Transact-SQL statements, select them, and then click **Execute**.
14. Review the results, and note that the first insert succeeds, but the second fails because it contains the duplicate **SSN** value '123'.
15. Close SQL Server Management Studio without saving changes.

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