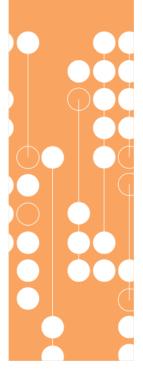
Retrieving Data

Exercise Handout







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Overview

You will be working with the Products table in the Northwind database to produce a list of products and their stock levels.

If you're feeling confident, there is a second exercise which uses some string concatenation on the Employees table.

Objectives

At the end of this set of exercises, you will be able to:

- · write a simple select statement.
- write a select statement that picks out only certain columns from the source table.
- · write a select statement that uses calculated values.

Setup: Launch SQL Server Management Studio (if necessary)

- 1. Launch the virtual machine.
- 2. Launch SQL Server Management Studio.
- 3. Connect to the server.



Exercise 1: Retrieve data by using the SELECT statement

Northwind Traders are attempting to learn more about their stock levels. You have been asked to produce a list of products.

In this exercise, you will create simple SELECT statement queries.

The main tasks for this exercise are as follows:

- 1. Write a guery using the SELECT * statement against the Products table.
- 2. Write a query that selects the ProductID, ProductName, UnitPrice and UnitsInStock columns from the Products table.
- 3. Add columns to the second query so that it also calculates the current value of stock and the future value of stock.

Task 1: Write a query using SELECT *

- 1. Create a new query and save it with a filename of "SelectAllProductDetails.sql"
- 2. Create a query that uses the Northwind database and then displays all columns and all rows from the Products table.
- 3. Execute the query by hitting the <F5> key.
- 4. Browse the result set in the Results pane. You should see 77 rows returned.

Task 2: Write a query that selects individual columns from a table

- 1. Create another new query and call it "StockList.sql".
- 2. It should access the Products table in the Northwind database.
- 3. It should only include the ProductID, ProductName, UnitPrice and UnitsInStock columns.
- 4. Execute the query by hitting the <F5> key.
- 5. Browse the result set in the Results pane and confirm that only the specified columns appear.



Task 3: Write a query that selects individual columns from a table

- 1. Edit the existing "StockList.sql" query.
- 2. Add the UnitsOnOrder column to the select list.
- 3. Add a calculated column that multiplies UnitPrice by UnitsInStock and alias it as CurrentStockValue.
- 4. Add a second calculated column that adds UnitsOnOrder to UnitsInStock and multiplies the result by UnitPrice. Alias the new column as FutureStockValue.
- 5. Execute the query by hitting the <F5> key.
- 6. Browse the result set in the Results pane and confirm that the current stock value of ProductID 2, Chang, is 323 and its future value is 1083.



(Optional) Exercise 2: Concatenate strings in a select list

Write a query that selects the FullName and telephone Extension from the Employees table in the Northwind database.

You'll need to concatenate the FirstName and LastName columns and you'll need to put a space between them. There are 9 rows in the Employees table.

