

## WHERE Clause Practice Problems

- 1) Return the FirstName and LastName columns from Person.Person where the FirstName column is equal to "Mark"
- 2) Find the top 100 rows from Production.Product where the ListPrice is not equal to 0.00
- 3) Return all rows and columns from the view HumanResources.vEmployee where the employee's last name starts with a letter less than "D"
- 4) Return all rows and columns from Person.StateProvince where the CountryRegionCode column is equal to "CA"
- 5) Return the FirstName and LastName columns from the view Sales.vIndividualCustomer where the LastName is equal to "Smith". Give the column alias "Customer First Name" and "Customer Last Name" to the FirstName and LastName columns respectively.
- 6) Using the Sales.vIndividualCustomer view, find all customers with a CountryRegionName equal to "Australia" or all customers who have a PhoneNumberType equal to "Cell" and an EmailPromotion column value equal to 0. (Hint: the correct query requires the use of parentheses in your WHERE clause)
- 7) Find all employees from the view HumanResources.vEmployeeDepartment who have a Department column value in the list of: "Executive", "Tool Design", and "Engineering". Complete this query twice – once using the IN operator in the WHERE clause and a second time using multiple OR operators.
- 8) Using HumanResources.vEmployeeDepartment, find all employees who have a StartDate between July 1, 2000 and June 30, 2002. Complete this query twice – once using the BETWEEN operator and then by using a combination of the "greater than or equal to" and "less than or equal to" operators.
- 9) Find all customers from the view Sales.vIndividualCustomer whose LastName starts with the letter "R". (Hint: a wildcard character can assist you with this query)
- 10) Find all customers from the view Sales.vIndividualCustomer whose LastName ends with the letter "r". (Hint: a wildcard character can assist you with this query)
- 11) Find all customers from the view Sales.vIndividualCustomer whose LastName is either "Lopez", "Martin", or "Wood" and whose FirstName starts with any letter between "C" and "L" in the alphabet. (Hint: multiple wildcard characters will be used in this query)
- 12) Return all columns from the Sales.SalesOrderHeader table for all sales that are associated with a sales person. That is, return all rows where the SalesPersonID column does not contain a NULL value.
- 13) Return the SalesPersonID and TotalDue columns from Sales.SalesOrderHeader for all sales that do not have a NULL value in the SalesPersonID column and whose TotalDue value exceeds \$70,000.

## WHERE Clause Practice Problem Solutions

### Question 1:

```
SELECT FirstName, LastName
FROM Person.Person
WHERE FirstName = 'Mark'
```

### Question 2:

```
SELECT TOP 100 *
FROM Production.Product
WHERE ListPrice <> 0.00
```

### Question 3:

```
SELECT *
FROM HumanResources.vEmployee
WHERE LastName < 'D'
```

### Question 4:

```
SELECT *
FROM Person.StateProvince
WHERE CountryRegionCode = 'CA'
```

### Question 5:

```
SELECT
    FirstName AS "Customer First Name",
    LastName AS "Customer Last Name"
FROM Sales.vIndividualCustomer
WHERE LastName = 'Smith'
```

### Question 6:

```
SELECT *
FROM Sales.vIndividualCustomer
WHERE CountryRegionName = 'Australia' OR
    (PhoneNumberType = 'Cell' AND EmailPromotion = 0)
```

### Question 7:

```
SELECT *
FROM HumanResources.vEmployeeDepartment
WHERE Department IN ('Executive', 'Tool Design', 'Engineering')

SELECT *
FROM HumanResources.vEmployeeDepartment
WHERE Department = 'Executive' OR Department = 'Tool Design'
    OR Department = 'Engineering'
```

### Question 8:

```
SELECT *
FROM HumanResources.vEmployeeDepartment
WHERE StartDate BETWEEN '7/1/2000' AND '6/30/2002'

SELECT *
FROM HumanResources.vEmployeeDepartment
WHERE StartDate >= '7/1/2000' AND StartDate <= '6/30/2002'
```

**Question 9:**

```
SELECT *  
FROM Sales.vIndividualCustomer  
WHERE LastName LIKE 'R%'
```

**Question 10:**

```
SELECT *  
FROM Sales.vIndividualCustomer  
WHERE LastName LIKE '%r'
```

**Question 11:**

```
SELECT *  
FROM Sales.vIndividualCustomer  
WHERE LastName IN ('Lopez', 'Martin', 'Wood') AND  
      FirstName LIKE '[C-L]%'
```

**Question 12:**

```
SELECT *  
FROM Sales.SalesOrderHeader  
WHERE SalesPersonID IS NOT NULL
```

**Question 13:**

```
SELECT  
      SalesPersonID,  
      TotalDue  
FROM Sales.SalesOrderHeader  
WHERE SalesPersonID IS NOT NULL  
      AND TotalDue > 70000
```