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

Question 2:
```sql
SELECT TOP 100 *
FROM Production.Product
WHERE ListPrice <> 0.00
```

Question 3:
```sql
SELECT *
FROM HumanResources.vEmployee
WHERE LastName < 'D'
```

Question 4:
```sql
SELECT *
FROM Person.StateProvince
WHERE CountryRegionCode = 'CA'
```

Question 5:
```sql
SELECT
      FirstName AS "Customer First Name",
      LastName AS "Customer Last Name"
FROM Sales.vIndividualCustomer
WHERE LastName = 'Smith'
```

Question 6:
```sql
SELECT *
FROM Sales.vIndividualCustomer
WHERE CountryRegionName = 'Australia' OR
      (PhoneNumberType = 'Cell' AND EmailPromotion = 0)
```

Question 7:
```sql
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:
```sql
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:
```sql
SELECT *
FROM Sales.vIndividualCustomer
WHERE LastName LIKE 'R%'
```

Question 10:
```sql
SELECT *
FROM Sales.vIndividualCustomer
WHERE LastName LIKE '%r'
```

Question 11:
```sql
SELECT *
FROM Sales.vIndividualCustomer
WHERE LastName IN ('Lopez', 'Martin', 'Wood') AND
      FirstName LIKE '[C-L]%'
```

Question 12:
```sql
SELECT *
FROM Sales.SalesOrderHeader
WHERE SalesPersonID IS NOT NULL
```

Question 13:
```sql
SELECT
      SalesPersonID,
      TotalDue
FROM Sales.SalesOrderHeader
WHERE SalesPersonID IS NOT NULL
      AND TotalDue > 70000
```