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Homework #10

1. a. 156 rows are returned, and Cathan Cook is the first name on the contact list.

    b. In SQL, a null value will be returned if a string concatenation contains one or more values that are null.

    c.
```sql
SELECT FirstName + ISNULL(' ' + MiddleName + ' ', ' ') + LastName AS "Vendor
        Contact"
    FROM Person.Person
    WHERE PersonType = 'VC'
    ORDER BY LastName, FirstName
```

2.
```sql
SELECT Person.FirstName + ISNULL(' ' + Person.MiddleName + ' ', ' ') + Person.LastName
        AS "Sales Person Name",
        Person.Address.City AS "City",
        Person.StateProvince.Name AS "State/Province Name",
        Person.CountryRegion.Name AS "Country/Region Name"
FROM Person.Person
        INNER JOIN Person.BusinessEntityAddress
        ON Person.BusinessEntityID = Person.BusinessEntityAddress.BusinessEntityID
        INNER JOIN Person.Address
        ON Person.BusinessEntityAddress.AddressID = Person.Address.AddressID
        INNER JOIN Person.StateProvince
        ON Person.Address.StateProvinceID = Person.StateProvince.StateProvinceID
        INNER JOIN Person.CountryRegion
        ON Person.StateProvince.CountryRegionCode =
        Person.CountryRegion.CountryRegionCode
WHERE PersonType = 'SP'
ORDER BY CountryRegion.Name, StateProvince.Name, Address.City
```

3. a.
```sql
SELECT Product.Name AS "Product Name",
        Product.ProductID AS "Product ID"
    FROM Production.Product
        INNER JOIN Production.ProductReview
    ON Product.ProductID = ProductReview.ProductID
    GROUP BY Product.ProductID, Product.Name
```

    b.
```sql
SELECT Product.Name AS "Product Name",
        Product.ProductID AS "Product ID"
    FROM Production.ProductReview, Production.Product
    WHERE Product.ProductID IN (SELECT DISTINCT ProductReview.ProductID FROM
        Production.ProductReview)
    GROUP BY Product.ProductID, Product.Name
```

4.
```sql
SELECT ProductInventory.Shelf AS "Inventory Shelf",
    Productinventory.Bin AS "Inventory Bin",
    Product.Name AS "Product Name",
```

```sql
        Product.ProductID AS "Product ID",
        ProductInventory.Quantity AS "Product Quantity"
    FROM Production.Product
        INNER JOIN Production.ProductInventory
        ON Product.ProductID = ProductInventory.ProductID
        INNER JOIN Production.Location
        ON ProductInventory.LocationID = Location.LocationID
    WHERE Location.Name = 'Paint Shop'
```

5.
```sql
    SELECT Animal.AnimalID AS "Animal ID",
        Animal.AnimalName AS "Animal Name"
    FROM Animal
    WHERE AnimalID IN (SELECT FatherAnimalID FROM Animal WHERE FatherAnimalID IS NOT NULL)
```

6.
```sql
    SELECT Animal.AnimalName AS "Animal Name"
    FROM Animal
    WHERE AnimalID IN (SELECT MotherAnimalID FROM Animal WHERE AnimalName = 'Buck' AND
        MotherAnimalID IS NOT NULL)
```