Name: Derek Coleman
Class: CIS355-001
Instructor: Dr. Gretchen Castella
Date: April 11, 2018

Homework #9

1.
```
SELECT     Name, ProductNumber, Color, Size, [Weight], ListPrice
FROM       Production.Product
WHERE      (Color NOT IN ('black', 'blue') OR Color IS NULL)
           AND DiscontinuedDate IS NULL AND SellEndDate IS NULL
           AND FinishedGoodsFlag = 1
```

2.
```
SELECT ProductLine, MAX(StandardCost) AS 'MaximumCost', MIN(StandardCost) AS
       'MinimumCost'
FROM Production.Product
WHERE ProductLine IS NOT NULL AND DiscontinuedDate IS NULL AND SellEndDate IS NULL AND
      FinishedGoodsFlag = 1
GROUP BY ProductLine
```

3.
```
SELECT ProductLine, MAX(StandardCost) AS 'MaximumCost', MIN(StandardCost) AS
       'MinimumCost'
FROM Production.Product
WHERE ProductLine IS NOT NULL AND DiscontinuedDate IS NULL AND SellEndDate IS NULL AND
      FinishedGoodsFlag = 1
GROUP BY ProductLine
HAVING MIN(StandardCost) > 1
ORDER BY MaximumCost DESC
```

4. 98 entries.

```
SELECT COUNT(*) AS 'CountOfInactiveProducts' FROM Production.Product
WHERE DiscontinuedDate IS NOT NULL OR SellEndDate IS NOT NULL
```

5.
```
SELECT Product.ProductID, Product.Name, ProductReview.ReviewerName,
       ProductReview.ReviewDate, ProductReview.Rating, ProductReview.Comments
FROM Production.Product INNER JOIN Production.ProductReview ON Product.ProductID
           ProductReview.ProductID
```

6. 25 + 8 = 33 columns, 505 x 4 = 2020 rows

7.
```
SELECT Product.*
FROM Production.Product INNER JOIN Production.ProductReview ON Product.ProductID =
     ProductReview.ProductID
WHERE Product.ProductLine = 'M'
```

8.
```
SELECT ProductInventory.ProductID, Product.Name, SUM(ProductInventory.Quantity) AS
       'ProductQuantity'
FROM Production.ProductInventory INNER JOIN Production.Product ON
     Product.DiscontinuedDate IS NULL AND Product.SellEndDate IS NULL AND
     Product.FinishedGoodsFlag = 1
GROUP BY ProductInventory.ProductID, Product.Name
```

9.
```
SELECT Product.ProductID, Product.Name, Product.ReorderPoint,
       SUM(ProductInventory.Quantity) AS 'ProductQuantity'
FROM Production.Product INNER JOIN Production.ProductInventory
    ON Product.ProductID = ProductInventory.ProductID
GROUP BY Product.ProductID, Product.Name, Product.ReorderPoint
HAVING SUM(ProductInventory.Quantity) < Product.ReorderPoint
```

10. Question: What is the maximum quantity of each product line's inventory?

```
SELECT Product.ProductLine, MAX(Productinventory.Quantity) AS 'MaximumQuantity'
FROM Production.Product INNER JOIN Production.ProductInventory ON Product.ProductID =
     ProductInventory.ProductID
WHERE ProductLine IS NOT NULL
GROUP BY Product.ProductLine
```