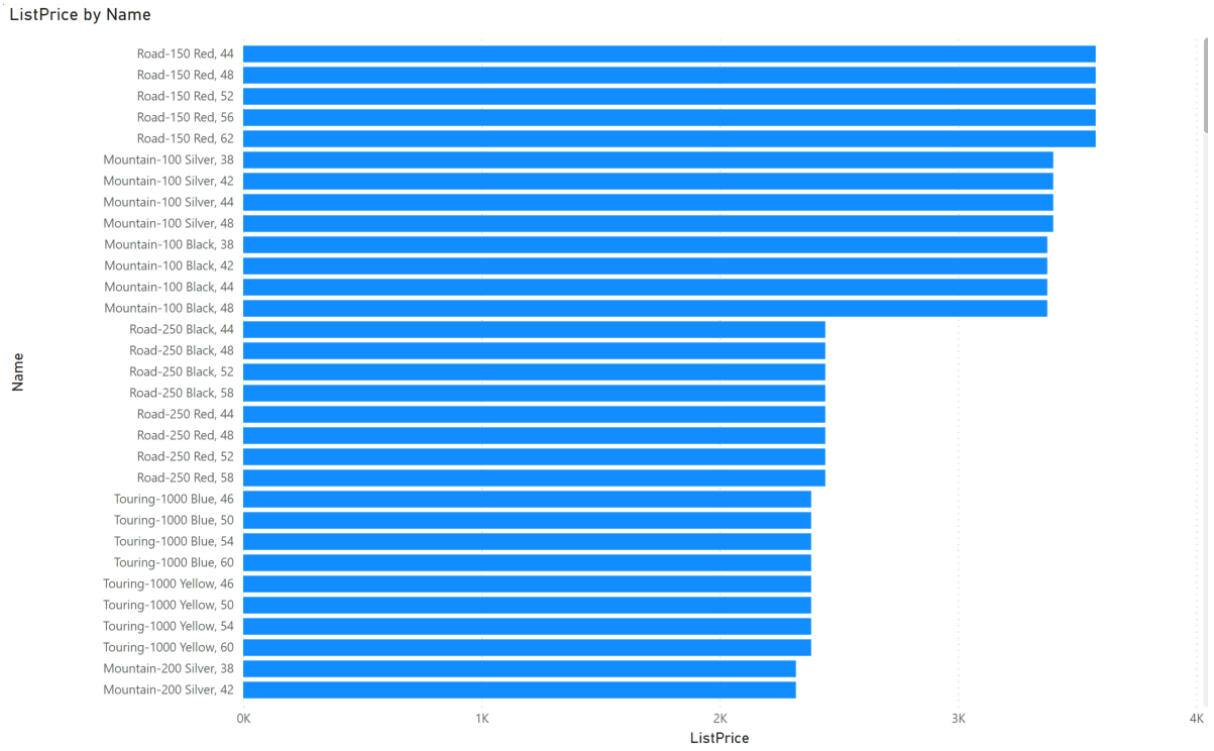
Data Warehouse Lab 1

Task 2

This simple bar chart that shows the result of the query which is the product name with the list price above than 100



Task 3

2a. iii.

```
SELECT Datepart(month, OrderDate) AS 'Month', Datepart(year, OrderDate) AS 'Year', COUNT(SubTotal) AS 'SubTotal'
FROM Sales.SalesOrderHeader
GROUP BY Datepart(month, OrderDate), Datepart(year, OrderDate)
ORDER BY DATEPART(YEAR, OrderDate), Datepart(month, OrderDate) ASC
```

2b. ii.

```
SELECT AVG(ListPrice) AS 'Average Price'
FROM Production.Product
INNER JOIN Production.ProductSubcategory
ON Product.ProductSubcategoryID = ProductSubcategory.ProductSubcategoryID
INNER JOIN Production.ProductCategory
ON ProductSubcategory.ProductCategoryID = ProductCategory.ProductCategoryID
GROUP BY ProductCategory.ProductCategoryID
```

iii.

```
SELECT SUM(OrderQty) AS 'Quantity', ProductCategory.Name
FROM Sales.SalesOrderDetail
INNER JOIN Production.Product
ON SalesOrderDetail.ProductID = Product.ProductID
INNER JOIN Production.ProductSubcategory
ON Product.ProductSubcategoryID = ProductSubcategory.ProductSubcategoryID
INNER JOIN Production.ProductCategory
ON ProductSubcategory.ProductCategoryID = ProductCategory.ProductCategoryID
GROUP BY ProductCategory.Name
```

2c. ii.

```
SELECT AVG(SubTotal) AS 'Average Sales', Customer.StoreID AS 'Store', Person.BusinessEntityID AS 'Individual Retail'
FROM Sales.SalesOrderHeader
INNER JOIN Sales.Customer
ON Customer.CustomerID = SalesOrderHeader.CustomerID
LEFT JOIN Sales.Store
ON Store.BusinessEntityID = Customer.StoreID
LEFT JOIN Person.Person
ON Person.BusinessEntityID = Customer.CustomerID
GROUP BY Customer.StoreID, Person.BusinessEntityID
ORDER BY Customer.StoreID ASC, Person.BusinessEntityID ASC
```

iii.

```
SELECT SUM(SubTotal) AS 'Total', SalesTerritory.Name
FROM Sales.SalesOrderHeader
INNER JOIN Sales.Customer
ON Customer.CustomerID = SalesOrderHeader.CustomerID
INNER JOIN Sales.SalesTerritory
ON SalesTerritory.TerritoryID = Customer.CustomerID
GROUP BY SalesTerritory.Name
```

2d. ii.

```
SELECT COUNT(BusinessEntityID) AS 'Sales Represantatives', SalesTerritory.Name
FROM Sales.SalesPerson
INNER JOIN Sales.SalesTerritory
ON SalesTerritory.TerritoryID = SalesPerson.TerritoryID
GROUP BY SalesTerritory.Name
```