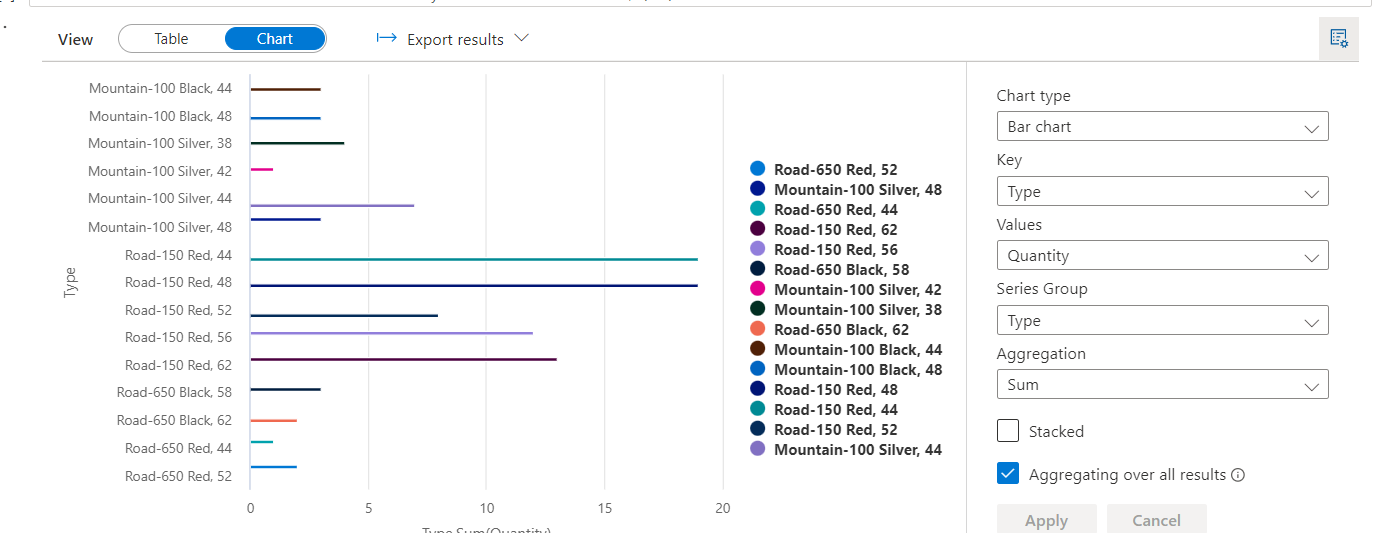
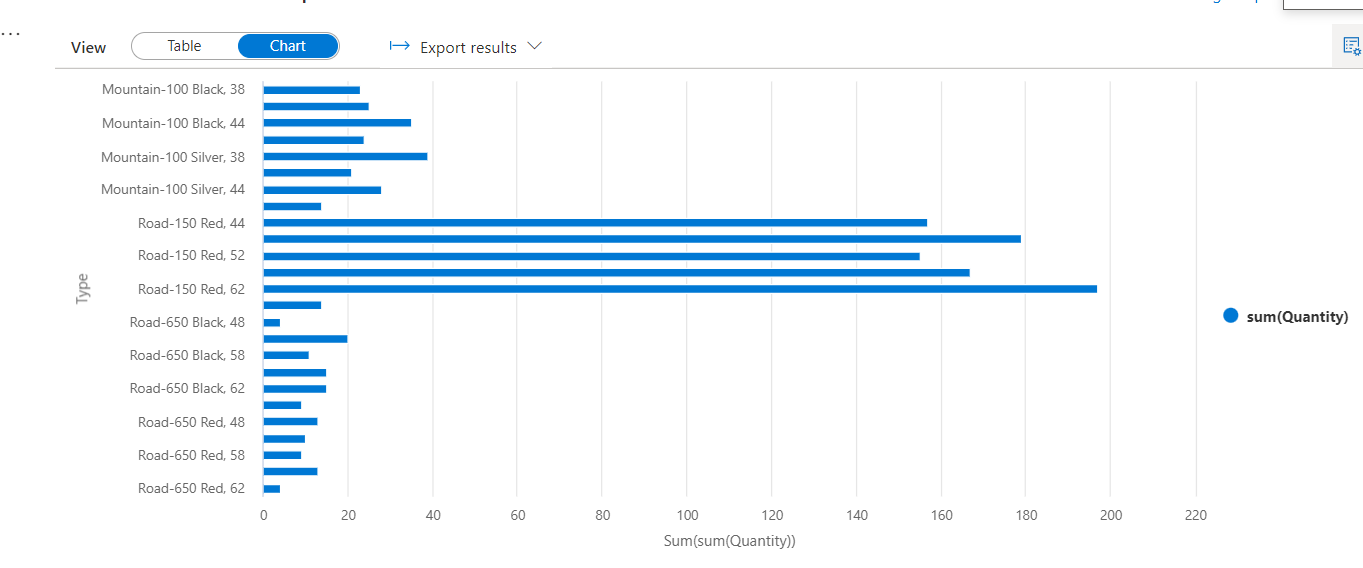
* Data displayed before applying the \*Aggregate\* function using the selections displayed on the right of the Chart to aggregate data.



* Data displayed after using the pyspark code to aggregate data.



* Visualising Same Data with a Bar Chart : it’s not always advisable to use pie charts if you have a lot of categories. Pie charts and Donut charts are majorly for aesthetic purposes. Bar and Column charts are preferred for displaying data with a lot of categories.

Chart, pie chart

Description automatically generated

**CODES**

SQLUser Login PWD: **19Wryte96.**

%%pyspark

from pyspark.sql.types import \*

from pyspark.sql.functions import \*

orderSchema = StructType([

    StructField("SalesOrderNumber", StringType()),

    StructField("SalesOrderLineNumber", IntegerType()),

    StructType("OrderDate", DateType()),

    StructType("CustomerName", StringType()),

    StructType("Email", StringType()),

    StructType("Item", StringType()),

    StructField("Quantity", IntegerType()),

    StructField("UnitPrice", FloatType()),

    StructField("Tax", FloatType())

    ])

df = spark.read.load('abfss://files@datalakeuz7va9w.dfs.core.windows.net/sales/orders/2019.csv', format='csv', schema= orderSchema)

display(df.limit(100))