```
data SalesData;
  input Date Date9. Product $ Quantity Price Customer $;
  datalines;
01JAN2023 Apple 10 1.99 John
02JAN2023 Banana 15 0.99 Mary
03JAN2023 Orange 20 1.49 Bob
04JAN2023 Apple 5 1.99 Sarah
05JAN2023 Banana 12 0.99 Tom
06JAN2023 Orange 18 1.49 Lisa
;
run;
/* Calculate total sales for each product */
proc means data=SalesData sum;
  class Product;
  var Quantity Price;
  output out=ProductSummary sum=TotalQuantity TotalPrice;
run;
/* Display frequency distributions for some variables */
proc freq data=SalesData;
  tables Product Customer;
run;
/* Check for missing values in the "Date" variable and exclude those records */
data CleanedSalesData;
  set SalesData;
  if not missing(Date);
run;
/* Step 4: Data Analysis */
/* Calculate total sales revenue for each product and create a new variable */
data SalesDataWithRevenue;
  set CleanedSalesData;
  Revenue = Quantity * Price;
run;

/* Display the first few rows of the updated dataset */
proc print data=SalesDataWithRevenue(obs=5);
run;
/* Step 5: Data Visualization */
/* Create a bar chart to visualize total sales revenue for each product */
proc sgplot data=SalesDataWithRevenue;
  vbar Product / response=Revenue datalabel;
  xaxis display=(nolabel);
  yaxis label="Total Sales Revenue";
  title "Total Sales Revenue by Product";
run;
/* Step 6: Reporting */
/* Create a summary report with key findings and visualizations */
ods html file="SalesDataAnalysis.html";
proc print data=SalesDataWithRevenue;
run;
proc sgplot data=SalesDataWithRevenue;
  vbar Product / response=Revenue datalabel;
  xaxis display=(nolabel);
  yaxis label="Total Sales Revenue";
  title "Total Sales Revenue by Product";
run;
ods html close;
/* Export the HTML report */
filename MyReport "SASJoexSalesDataAnalysis.html";
data _null_;
  file MyReport;
  infile "SalesDataAnalysis.html" recfm=n;
  input;
```

```
    put _infile_;
run;
```