```
/* Define a library for raw data if not already defined */
libname rawdata '/sas/data/raw';

/* Define a library for processed data if not already defined */
libname processed '/sas/data/processed';

/* Step 1: Load raw customer orders data */
data processed.customer_orders_raw;
   set rawdata.orders;
   /* Simulate adding a new derived variable */
   OrderValue = Quantity * UnitPrice;
run;

/* Step 2: Filter orders for a specific region */
data processed.customer_orders_filtered;
   set processed.customer_orders_raw;
   where Region = 'East';
run;

/* Step 3: Aggregate sales by customer */
proc sql;
   create table processed.customer_sales_summary as
   select
      CustomerID,
      sum(OrderValue) as TotalSales,
      count(distinct OrderID) as NumberOfOrders
   from processed.customer_orders_filtered
   group by CustomerID;
quit;

/* Step 4: Merge aggregated sales with customer demographic information */
```

```
data processed.final_customer_data;
    merge processed.customer_sales_summary (in=a)
          rawdata.customer_demographics (in=b);
    by CustomerID;
    if a and b; /* Ensure records exist in both datasets */
run;
```