5. Subsetting Observations Based on Three Conditions

a. Write a DATA step to create **work.delays**. Use **orion.orders** as input.

b. Create a new variable, **Order_Month**, and set it to the month of **Order_Date**.

   Hint: Use the MONTH function.

c. Use a WHERE statement and a subsetting IF statement to select only the observations that meet all of the following conditions:

   - **Delivery_Date** values that are more than four days beyond **Order_Date**
   - **Employee_ID** values that are equal to *99999999*
   - **Order_Month** values occurring in *August*

d. The new data set should include only **Employee_ID**, **Customer_ID**, **Order_Date**, **Delivery_Date**, and **Order_Month**.

e. Add permanent labels for **Order_Date**, **Delivery_Date**, and **Order_Month** as shown below.

f. Add permanent formats to display **Order_Date** and **Delivery_Date** as MM/DD/YYYY.

g. Add a PROC CONTENTS step to verify that the labels and formats were stored permanently.

```
              Alphabetic List of Variables and Attributes

    #    Variable        Type    Len    Format        Label

    2    Customer_ID     Num      8     12.           Customer ID
    4    Delivery_Date   Num      8     MMDDYY10.     Date Delivered
    1    Employee_ID     Num      8     12.           Employee ID
    3    Order_Date      Num      8     MMDDYY10.     Date Ordered
    5    Order_Month     Num      8                   Month Ordered
```