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| **IDS 462 STATISTICAL SOFTWARE FOR BUSINESS** | |
|  | **HOMEWORK 6** |
|  | **TEAM MEMBERS**: |
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Problem 1 - Monthly order data for the first half of the year is stored in the **orders\_midyear** data set. This data set is updated monthly and can contain data for 1 to 12 months.

a) SAS code to create a Frequent Shopper Program (FSP)

Code

libname SAS\_HW6 '/folders/myfolders/SAS\_HW6';

/\* Problem 1 \*/ /\* Part A \*/

data fsp (keep = Customer\_ID Months\_Ordered Total\_Order\_Amount); set SAS\_HW6.orders\_midyear;

array Mon{\*} Month1-Month12; Months\_Ordered = 0;

do i=1 to dim(Mon);

Months\_Ordered = N(of Mon[\*]);

end;

if Months\_ordered < 3 then delete;

else put "Customer is not qualified for loyalty program"; \*\*Stop;

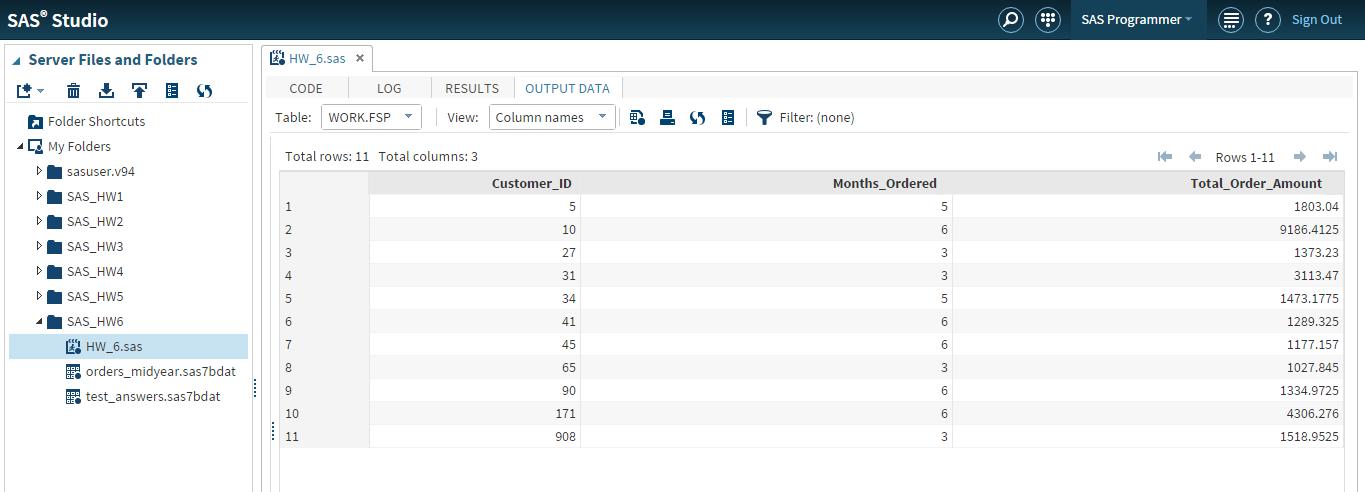
do i = 1 to dim(Mon);

Total\_Order\_Amount = Sum(of Mon{\*});

end;

If Total\_Order\_amount < 1000.00 then delete; run;

Output Data



b) Print the resulting data set with an appropriate title and formats, and verify your results.

Code

/\* Part B \*/

proc print data = fsp;

title "Customers who are eligible for Loyalty Program"; format Total\_Order\_Amount dollar14.2;

run; Output Data



Problem 2 - The Public Safety Department at Orion Star wants all employees to be aware of the new policies and procedures regarding customer incidents in their retail stores.

**a)** Use the answer key 'A','C','C','B','E','E','D','B','B','A' and read test\_answers and determine whether each personpassed or failed the test.

Code

/\* Problem 2 \*/ /\* Part A \*/

data passed failed; drop i;

set SAS\_HW6.test\_answers; Score = 0;

array response{\*} Q1-Q10;

array answer\_key{10} $ \_temporary\_ ('A','C','C','B','E','E','D','B','B','A'); do i=1 to dim(response);

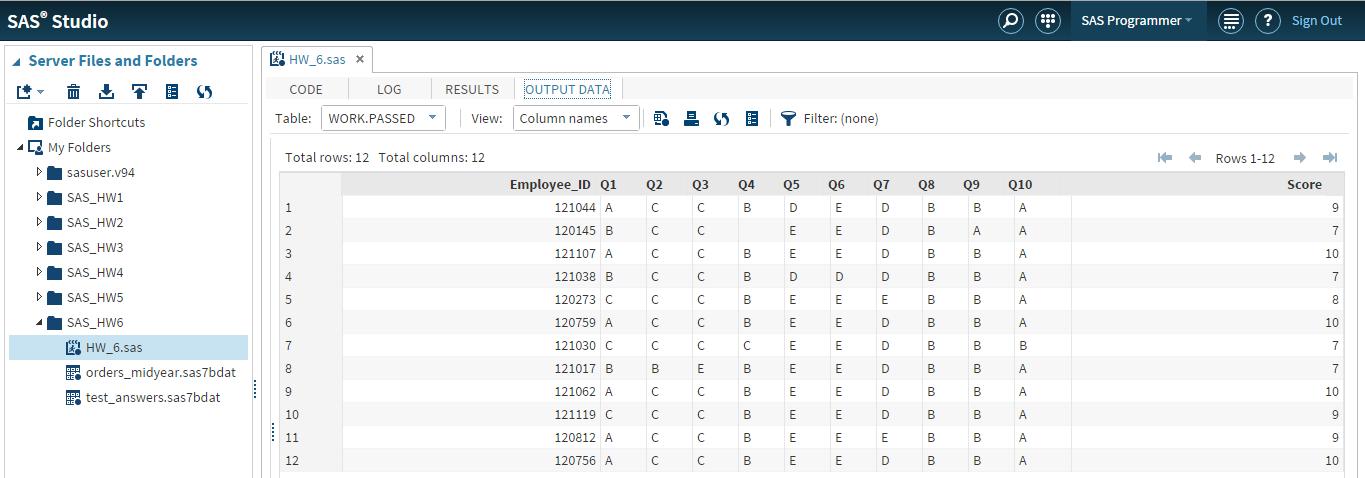
If response[i] = answer\_key[i] then score = score+1; end;

If score > 6 then output passed; Else output failed;

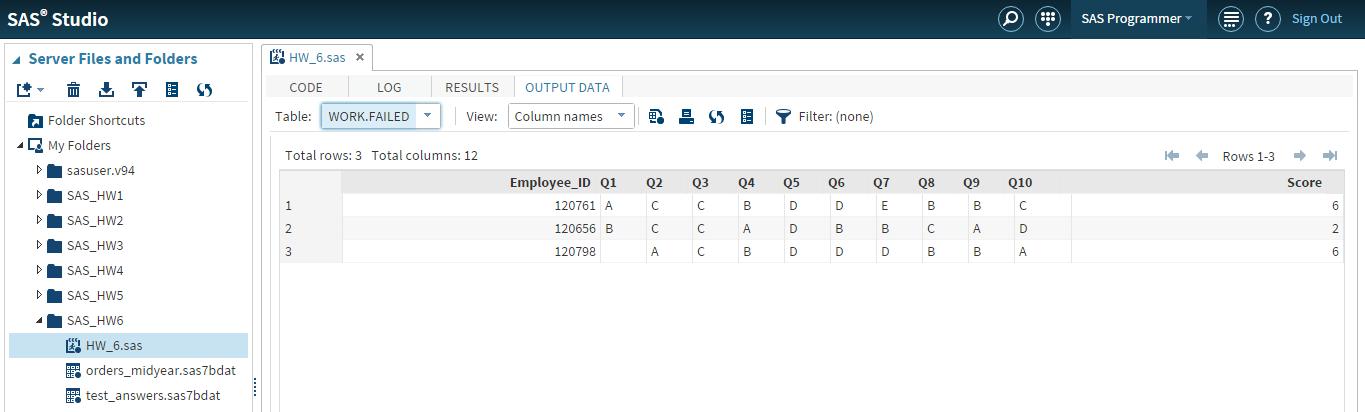
run;

Output Data

Work.passed data set:



Work.failed data set:



**b)** PROC Print the **passed** data set to verify that it contains 12 observations.

**Code**

/\* Part B \*/

proc print data = passed;

title "Employees who passed the test"; run;

Output Data

