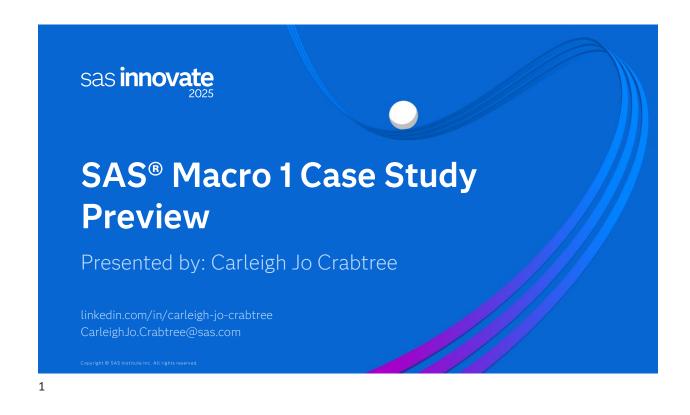
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# **About Carleigh Jo**





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# Agenda

1 Intro to Macro Language

**Q2** Explore Starter Program

O3 Define Goals

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# **Agenda**

1 Intro to Macro Language

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# Intro to Macro Language





Find & Replace



Enhance & Automate

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## Intro to Macro Language

#### To create data driven macro variables:

```
PROC SQL;
SELECT distinct Type
INTO :carType1-
FROM sashelp.cars;
QUIT;
```

Macro Variable	Text
carType1	Sports
carType2	SUV
carType3	Truck
carType#	lastDistinctValue

To use:

&carType#

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#### Intro to Macro Language

To create macro definition with a parameter:

```
%MACRO carsMacro(tbl);
  PROC PRINT DATA= &tbl;
  RUN;
%MEND;
```

To use:

```
%carsMacro(sashelp.cars)
```

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#### Intro to Macro Language

Macro **conditional** processing:

```
%MACRO macroName;
%IF x=1 %THEN y="a";
%ELSE %IF x=2 %THEN y="b";
%MEND;
```

Macro iterative processing:

```
%MACRO macroName;
%DO i= start %TO stop;
...
%END;
%MEND;
```





# Agenda

01

Intro to Macro Language

02

**Explore Starter Program** 

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Define Goals

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# **Agenda**

01

Intro to Macro Language

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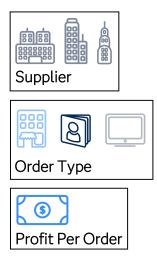




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## **Data Discovery**





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#### **Explore Starter Program: Part A**





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#### **Explore Starter Program: Part B**

```
proc sql;
select distinct Supplier ID format=12.,
                sum(profit) as Profit,
               Supplier Name
    from OrderDetail
    group by Supplier_ID, Supplier Name
    order by Profit desc;
quit;
```

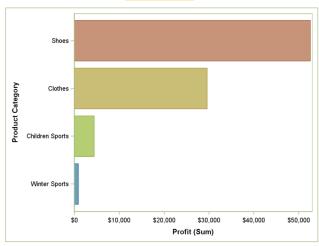
Supplier ID	Profit	Supplier Name		
1303	87482.95	Eclipse Inc		
2963	40977.58	3Top Sports		
1684	35596.11	Magnifico Sports		
13198	33240.55	Twain Inc		
109	33074.55	Petterson AB		
772	32221.31	AllSeasons Outdoor Clothing		
4742	24348.64	Luna sastreria S.A.		
755	23881.52	Top Sports		

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## **Explore Starter Program: Part C**

Orders for #1 Eclipse Inc Retail Sales Only



Product Group	Number of Orders	Total Profit	Average Profit per Order
Eclipse Shoes	813	\$52,600	\$65
Eclipse Clothing	753	\$27,337	\$36
Eclipse, Kid's Clothes	125	\$2,487	\$20
Eclipse, Kid's Shoes	73	\$1,923	\$26
LSF	32	\$2,238	\$70
Winter Sports	11	\$881	\$80
Tracker Clothes	2	\$15	\$8





#### **Explore Starter Program: Part C**

```
ods pdf file="&path/case study/1.pdf" style=meadow startpage=no nogtitle;
title "Orders for #1 Eclipse Inc";
title2 "Retail Sales Only";
proc sgplot data=OrderDetail noautolegend ;
    hbar Product_Category / response=profit stat=sum group=Product_Category
categoryorder=respdesc;
     where Supplier ID=1303;
     format profit dollar8.;
run;
proc sql;
     select Product Group,
           count(order id) as NumOrders "Number of Orders",
           sum(profit) as TotalProfit "Total Profit" format=dollar8.,
           avg(profit) as AvgProfit "Average Profit per Order" format=dollar6.
     from OrderDetail
     where Supplier ID=1303
     group by Product_Group
     order by calculated numorders desc;
quit;
ods pdf close;
```

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### **Agenda**

Intro to Macro Language

**O2** Explore Starter Program





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# Agenda

Intro to Macro Language

**Explore Starter Program** 

**Define Goals** 

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#### **Define Goals**



User selects order type









Generate 5 PDF's of top 5 suppliers





PDF's update depending on supplier













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