

Analyze and Share Results

1. Creating Summarized Output

2. Using Prompts in Tasks and Queries

3. Customizing and Organizing Project Results

1. Creating Summarized Output

1.1 Generating Summary Statistics

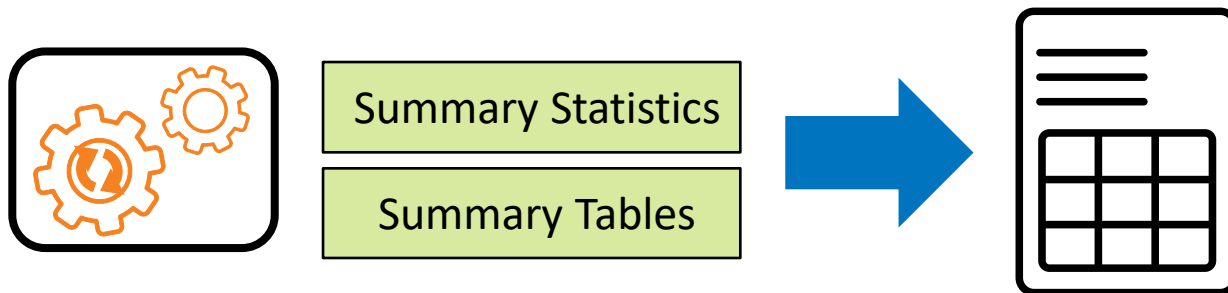
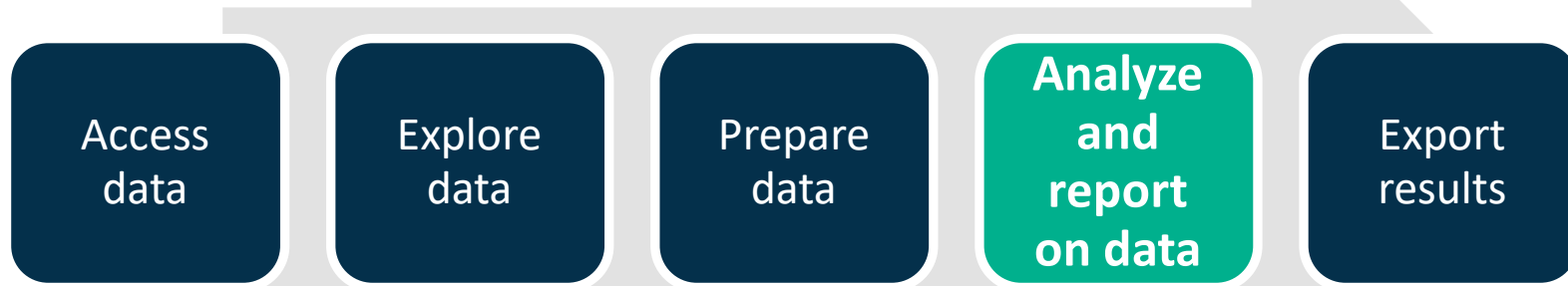
1.2 Creating a Summary Table Report

1. Creating Summarized Output

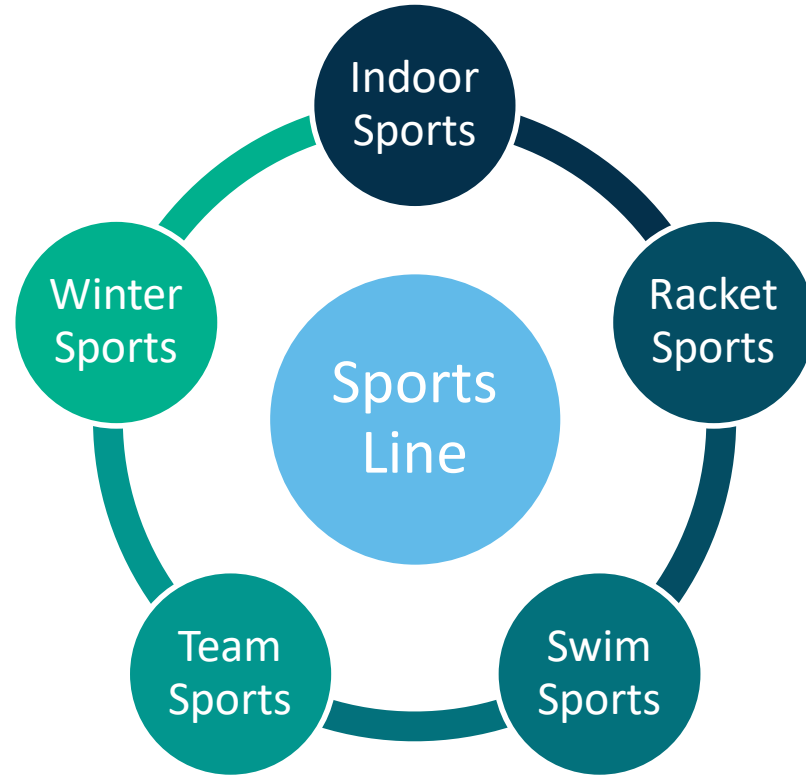
1.1 Generating Summary Statistics

1.2 Creating a Summary Table Report

Developing a Project



Summary Statistics





Demo 1: Generating Summary Statistics

This demonstration illustrates how to use the Summary Statistics Task to summarize data, store the results in a summary table, and export the table to Microsoft Excel.

1. Creating Summarized Output

1.1 Generating Summary Statistics

1.2 Creating a Summary Table Report

Using Summary Tables



1.01 Activity

1. Select **orion_profit** dataset.
2. In the Tasks pane, expand **Describe** and double-click **Summary Tables Wizard**.
3. In Step 1, verify the data and click **Next**.
4. In Step 2, click **Add** and select **Profit**. Click **Next**.
5. In Step 3, click **Add** for the columns and select **Customer_Age_Group**. Click **Add** for the rows and select **Product_Category**. Click **Finish**.

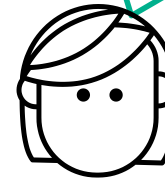
What is the profit for **clothes** sold to the **15-30 years age** group?

1.01 Activity – Correct Answer

What is the profit for clothes sold to the 15-30 years age group?

	Customer Age Group				Total
	15-30 years	31-45 years	46-60 years	61-75 years	
	Profit	Profit	Profit	Profit	Profit
	Sum	Sum	Sum	Sum	Sum
Product Category					
Assorted Sports Articles	3638.00	2152.75	748.15	1008.45	7547.35
Children Sports	418.60	337.85	115.35	25.10	896.90
Clothes	1002.35	2462.84	1344.05	1077.75	5886.99
Golf	4784.03	3149.90	1026.70	762.20	9722.83
Indoor Sports	1696.90	750.20	.	965.55	3412.65
Outdoors	3385.10	6204.10	1111.10	5174.70	15875.00
Racket Sports	81.10	626.50	1016.40	346.85	2070.85
Running - Jogging	309.15	1216.35	232.20	167.85	1925.55
Shoes	578.20	566.85	963.85	890.95	2999.85
Swim Sports	19.75	48.75	162.30	.	230.80
Team Sports	405.74	191.22	211.50	279.47	1087.93
Winter Sports	318.88	586.95	1415.50	189.95	2511.28
Total	16637.80	18294.26	8347.10	10888.82	54167.98

The profit for clothes sold to the 15-30 years age group is \$1002.35.

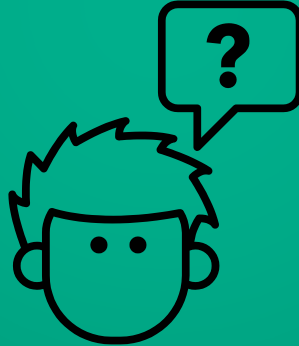




Demo 2: Creating a Tabular Summary Report and Formatting

This demonstration illustrates how to use the Summary Tables task to generate descriptive statistics and display them in a tabular report.

Questions?



2. Using Prompts in Tasks and Queries

2.1 Prompting in Projects

2.2 Creating and Using Prompts in Tasks

2.3 Creating and Using Prompts in Queries

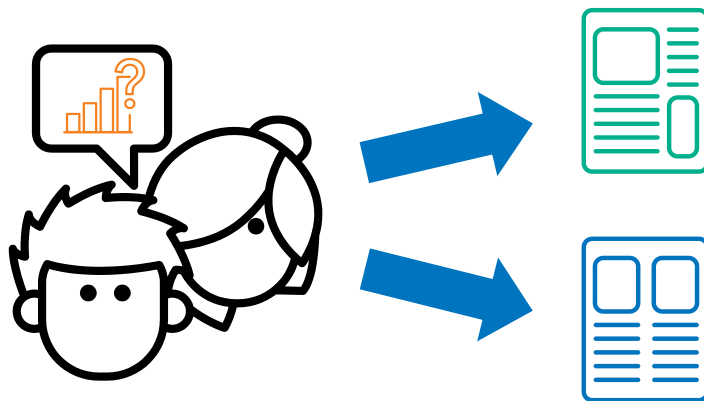
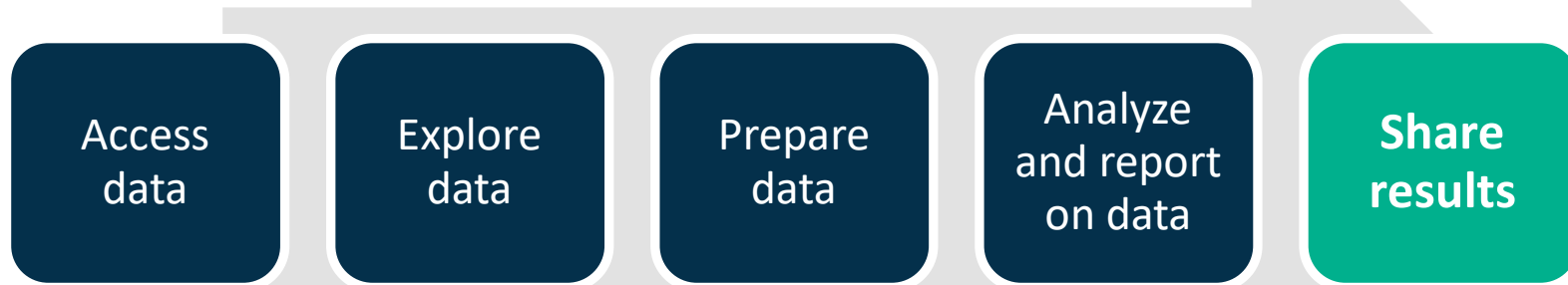
2. Using Prompts in Tasks and Queries

2.1 Prompting in Projects

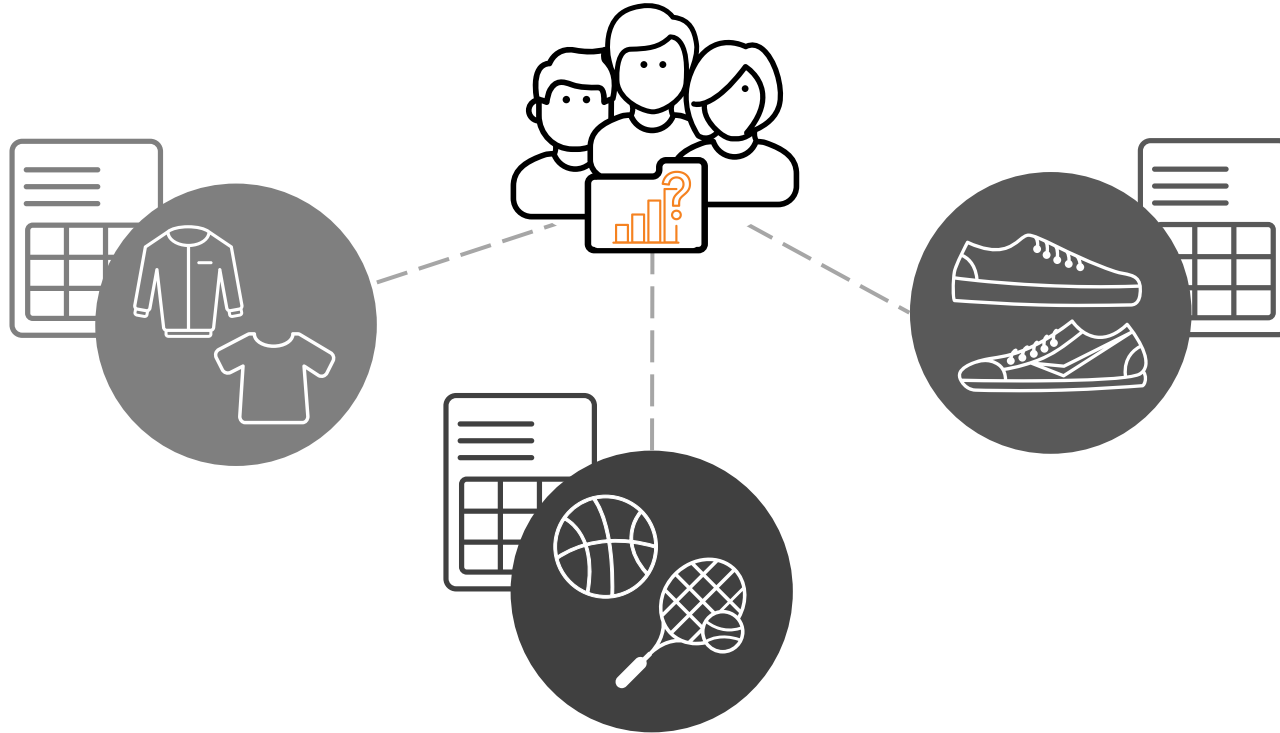
2.2 Creating and Using Prompts in Tasks

2.3 Creating and Using Prompts in Queries

Developing a Project



What Are Prompts?



2.01 Activity

1. In the 'Using Prompts in Tasks and Queries' process flow, run the Select Orders Query.
2. In the Specify Values for Project Prompts window, do the following:
 - From the customer age group menu, select **31-45 years**.
 - In the **Include orders with profits exceeding** field, enter **100**.
4. Click **Run**.
5. In the Project pane or process flow, double-click **Select Orders Query** to view the results.

How many rows were returned in the query result?

Multiple Choice Question

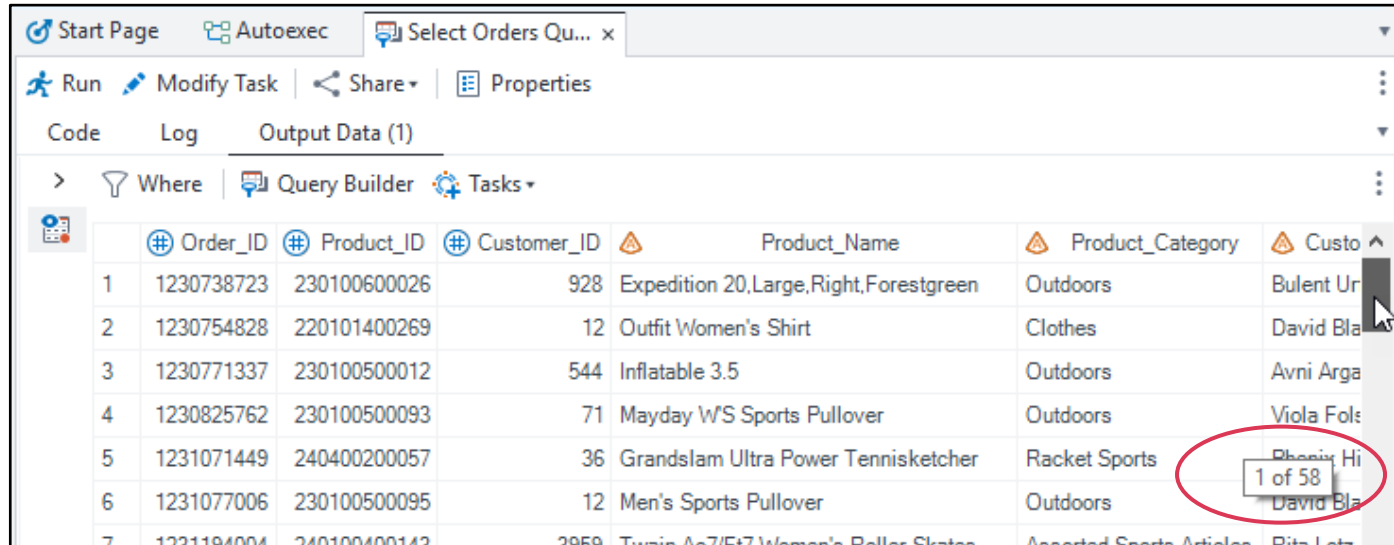
How many rows were returned in the query result?

- a. 0
- b. 58
- c. 76
- d. 617

Multiple Choice Question – Correct Answer

How many rows were returned in the query result?

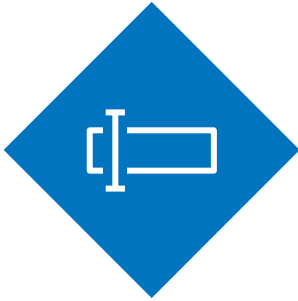
- a. 0
- b. 58**
- c. 76
- d. 617



The screenshot shows the SAS Query Builder interface. The 'Output Data (1)' tab is selected, displaying a table with 58 rows. The table columns are: Order_ID, Product_ID, Customer_ID, Product_Name, Product_Category, and Customer_Name. The first row is highlighted, and a tooltip indicates '1 of 58' rows are displayed.

	Order_ID	Product_ID	Customer_ID	Product_Name	Product_Category	Customer_Name
1	1230738723	230100600026	928	Expedition 20, Large, Right, Forestgreen	Outdoors	Bulent Ur
2	1230754828	220101400269	12	Outfit Women's Shirt	Clothes	David Bla
3	1230771337	230100500012	544	Inflatable 3.5	Outdoors	Avni Arga
4	1230825762	230100500093	71	Mayday W'S Sports Pullover	Outdoors	Viola Fols
5	1231071449	240400200057	36	Grandslam Ultra Power Tennisketcher	Racket Sports	Phoenix Hi
6	1231077006	230100500095	12	Men's Sports Pullover	Outdoors	David Bla
7	1231194004	240100400142	2858	Twin As7/F7 Women's Roller Skates	Accepted Sports Articles	Rita Leta

Creating Prompts



Prompt Manager



Query Builder



SAS Program

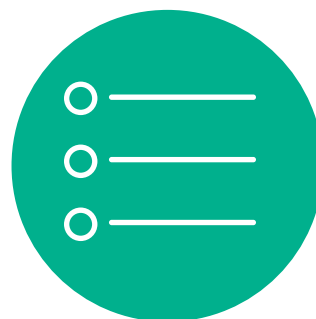
Selected Prompt Types



Text or Numeric



Date Values



Variable Lists



Color Selection

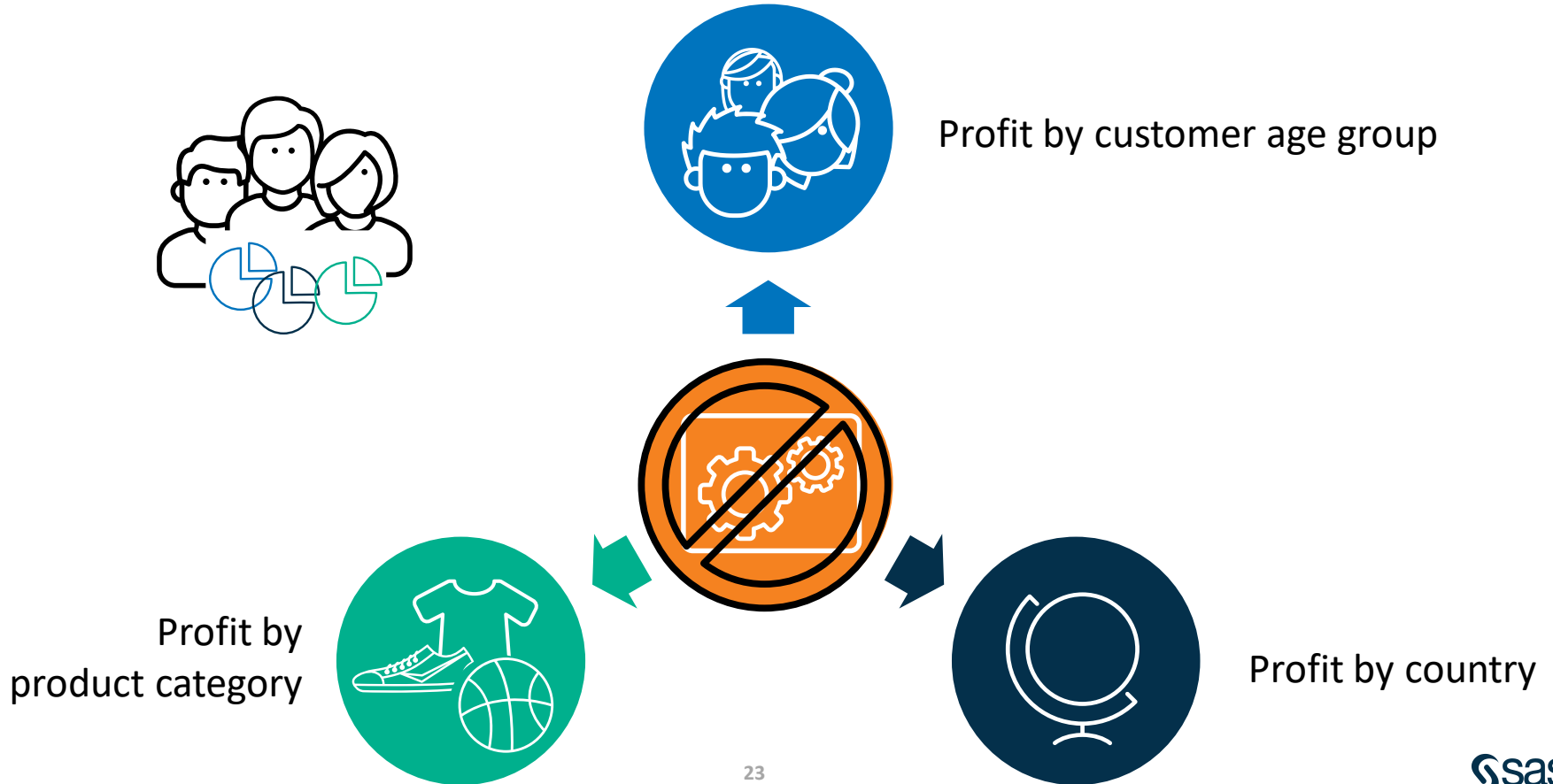
2. Using Prompts in Tasks and Queries

2.1 Prompting in Projects

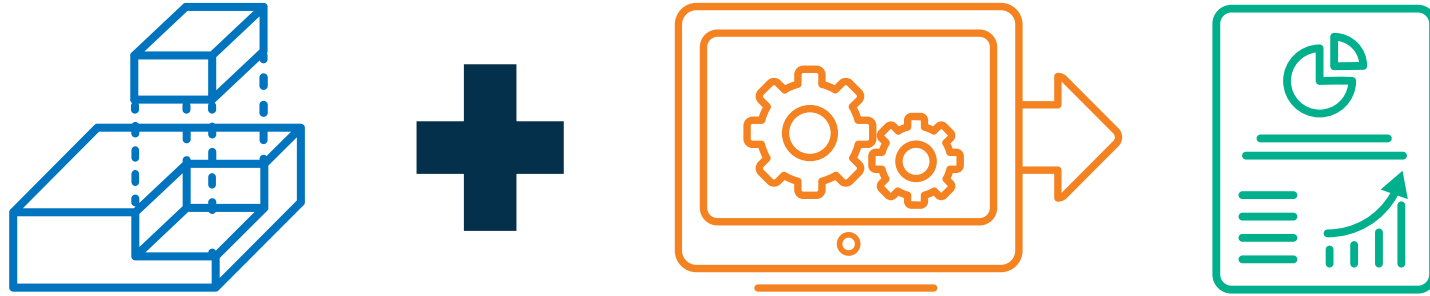
2.2 Creating and Using Prompts in Tasks

2.3 Creating and Using Prompts in Queries

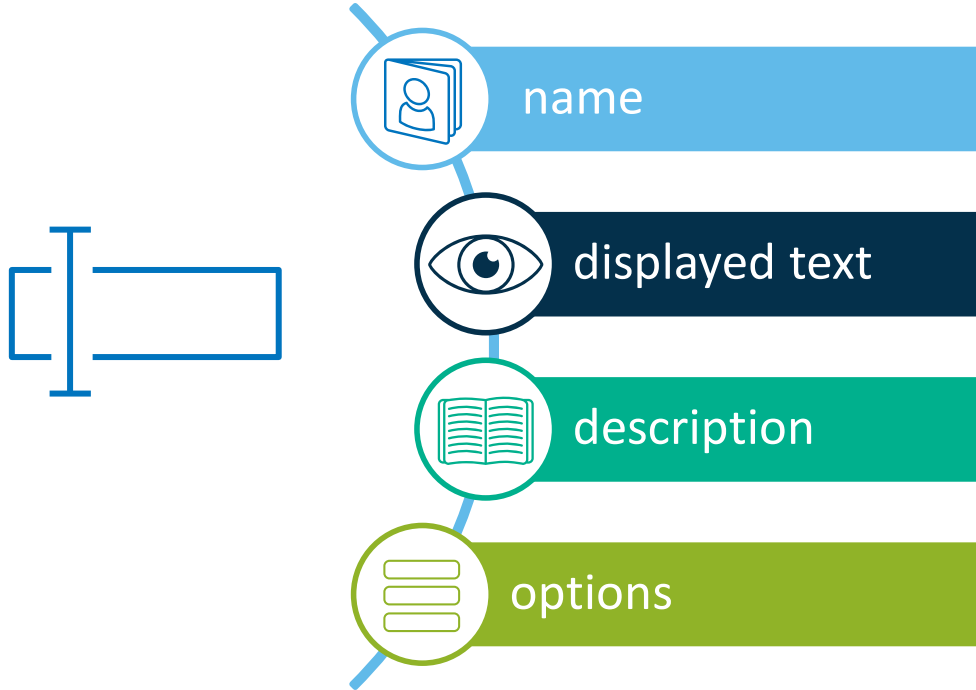
Prompting in Tasks



Working with Prompts in Tasks



General Prompt Properties



6.02 Multiple Answer Question

Which of the following are valid names for prompts? (Select all that apply.)

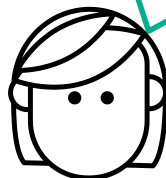
- a. Select Country
- b. Select_a_Category
- c. Profit\$Segments
- d. 1stQtrValues
- e. Qtr1Values

6.02 Multiple Answer Question – Correct Answers

Which of the following are valid names for prompts? (Select all that apply.)

- a. Select Country
- ☒ b. Select_a_Category
- c. Profit\$Segments
- d. 1stQtrValues
- ☒ e. Qtr1Values

Names can contain only alphanumeric characters and underscores, cannot begin with a number, and cannot exceed 32 characters.



Prompt Type and Value Properties

- Default value
- Select the method for populating prompt
- Single or multiple values

Text

ABC

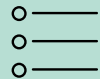
- Default value
- Select the method for populating prompt
- Single or multiple values
- Date type

Date



- Default value
- User selects values from a static list
- Single value

Variable



Prompt Type and Value Properties

- Default value
- Select the method for populating prompt
- Single or multiple values

Text

ABC

- Default value
- Select the method for populating prompt
- Single or multiple values
- Date type

Date



- Default value
- User selects values from a static list
- Single value

Variable





Demo 3: Prompting in Tasks

This demonstration illustrates how to create a variable prompt for use in a task.

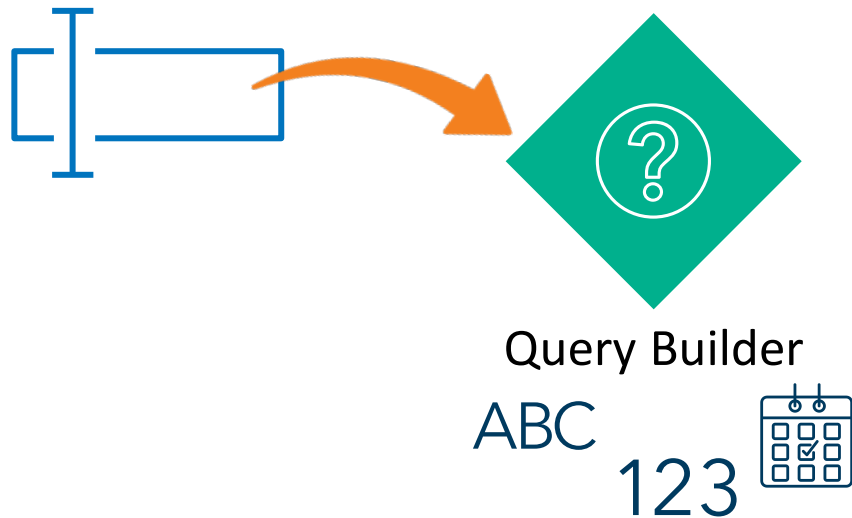
Lesson 6: Using Prompts in Tasks and Queries

6.1 Prompting in Projects

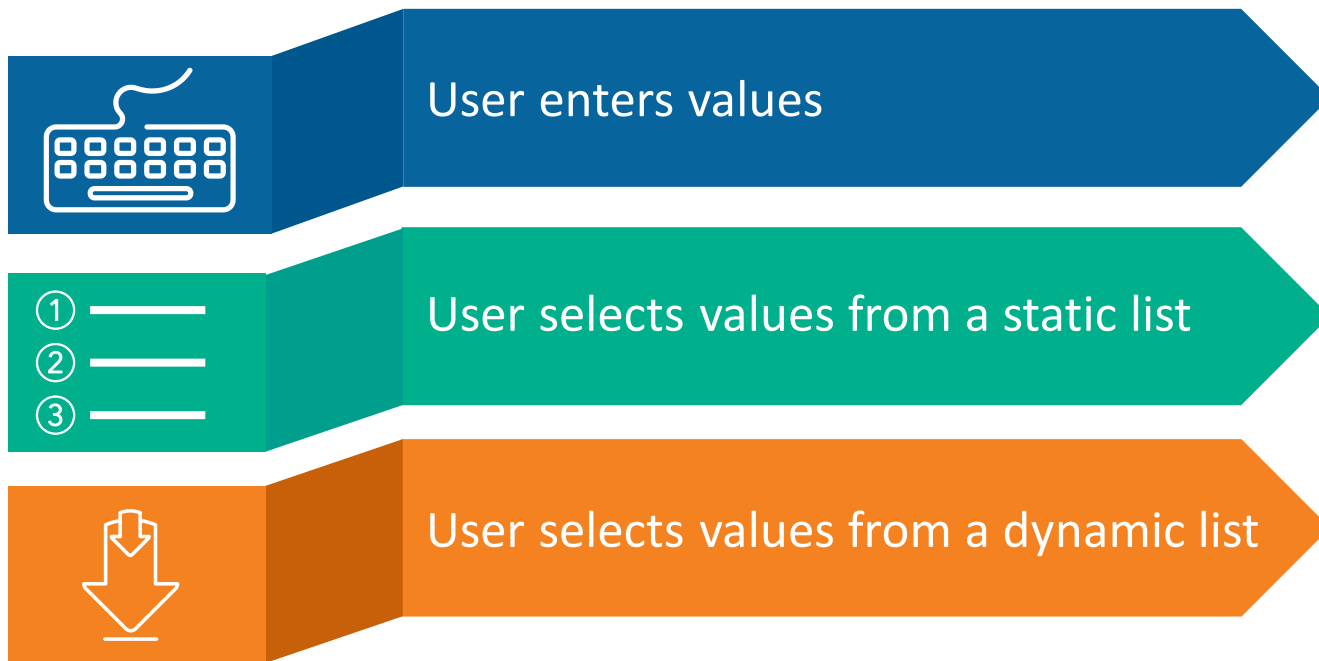
6.2 Creating and Using Prompts in Tasks

6.3 Creating and Using Prompts in Queries

Working with Prompts in the Query Builder



Methods for Populating Prompts

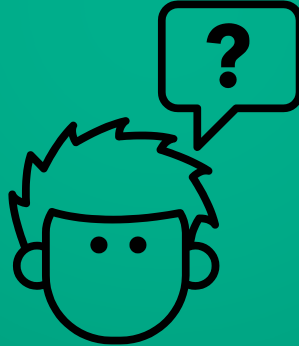




Demo 4: Prompting in Queries

This demonstration illustrates how to create a prompt for use in a query.

Questions?



3. Customizing and Organizing Project Results

3.1 Combining Results

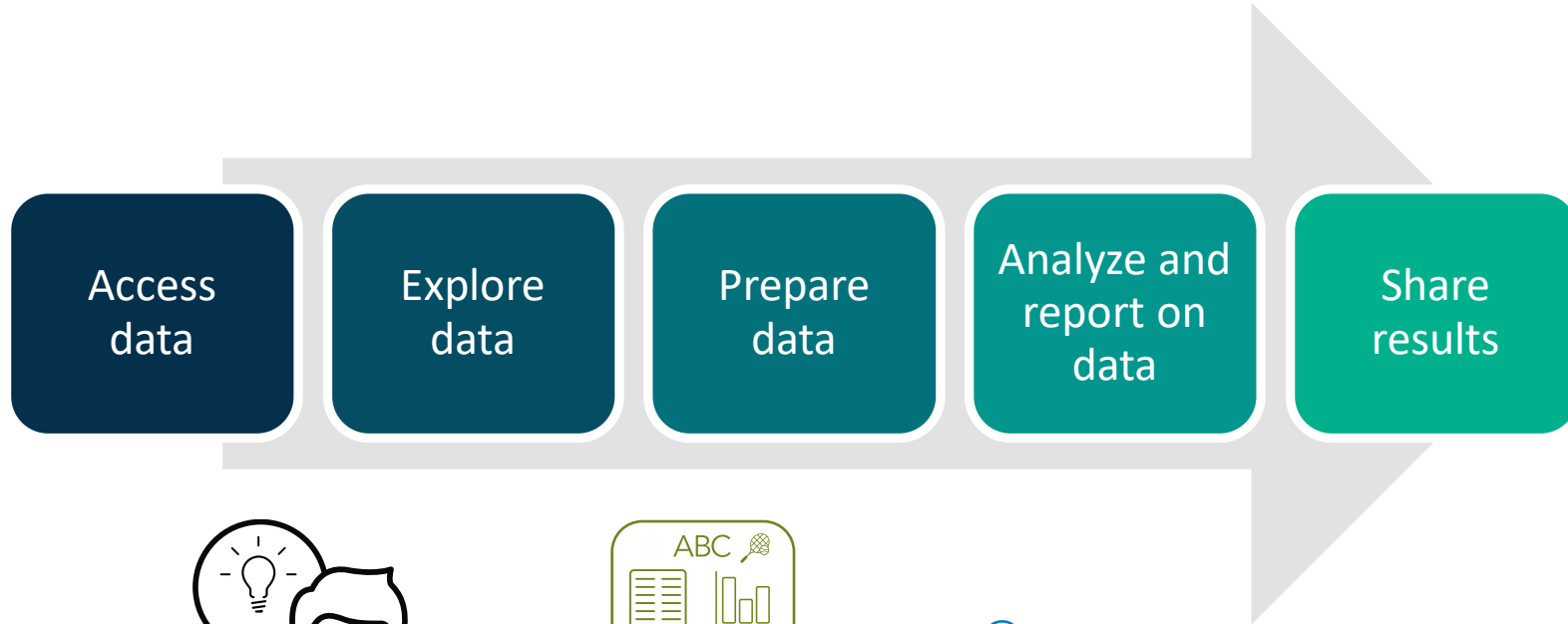
3.2 Updating and Organizing Projects

3. Customizing and Organizing Project Results

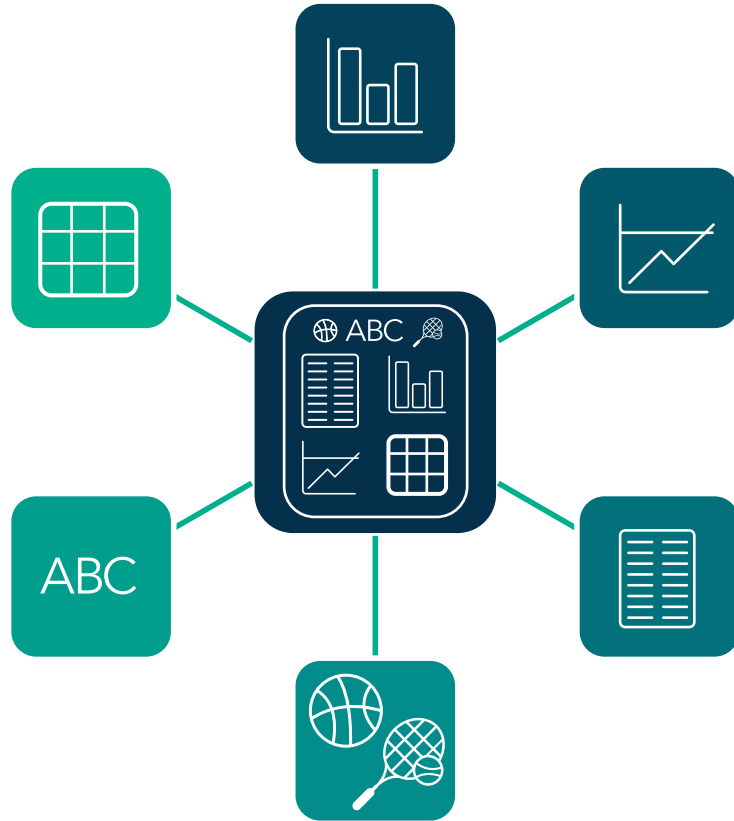
3.1 Combining Results

3.2 Updating and Organizing Projects

Developing a Project



SAS Reports



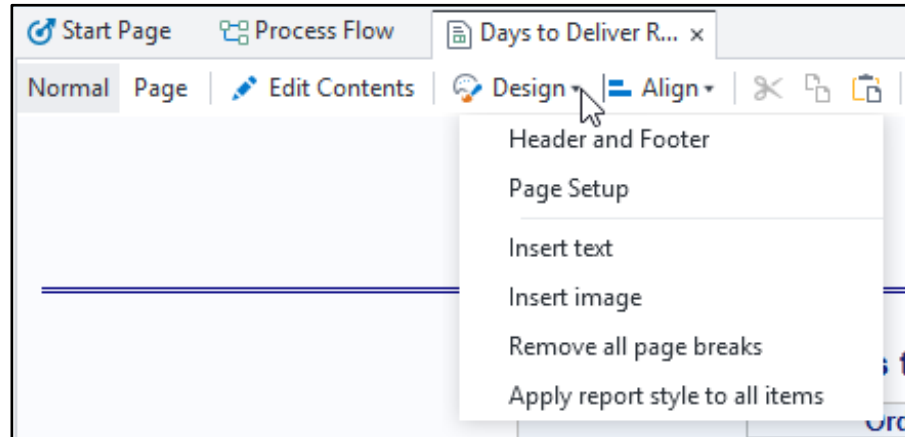
3.01 Activity

1. Open **Activity 3.1** process flow, **Run** from **Create Format (\$CntryFmt - Local) Task**.
2. Double-click **Days to Deliver Report** in the project.
3. Click **Design** on the report toolbar.

Which actions can you perform?

3.01 Activity – Correct Answer

Which actions can you perform?



I can modify the header and footer, change the page setup, and apply a report style.





Demo 5: Combining Results

This demonstration illustrates how to create a report by combining task results into a single file.

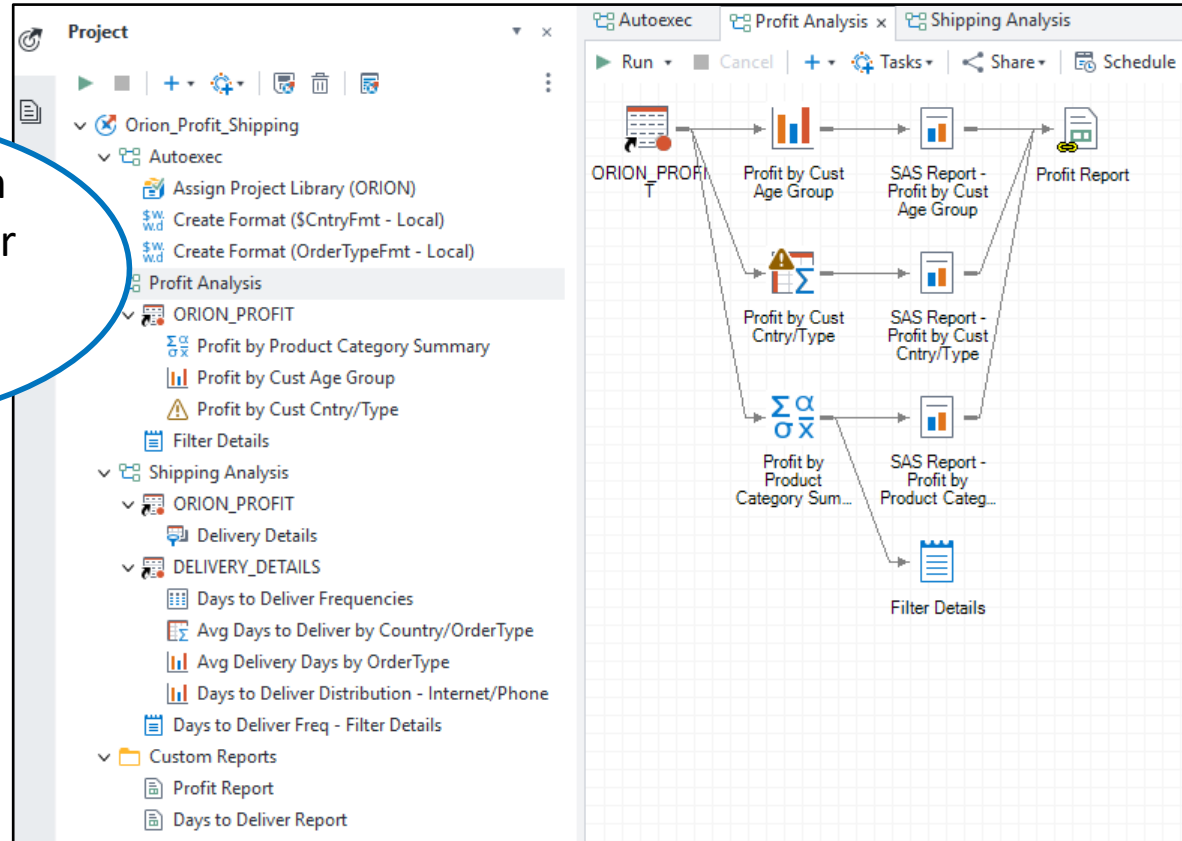
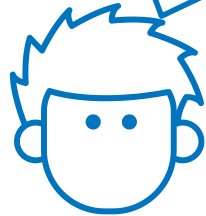
3. Customizing and Organizing Project Results

7.1 Combining Results

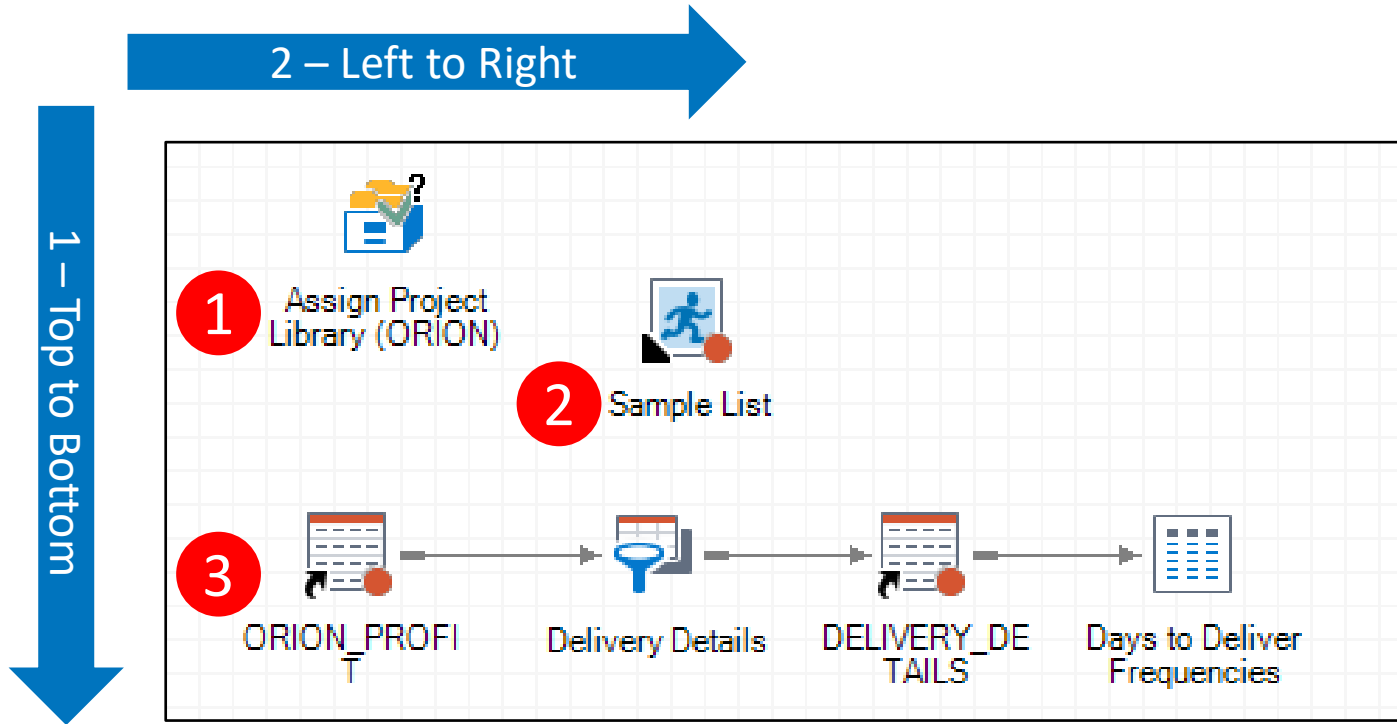
7.2 Updating and Organizing Projects

Project Organization

Items need to run
in a required order
to generate the
results correctly.



Process Flow Execution



3.02 Activity

1. Click **Run** in the Activity 3.2 process flow toolbar. Enter the course data location when prompted and click **Run**.
2. Notice that the process flow failed to generate the results.
3. Double-click the **Order Detail Query** object to view the log.

Why did the **Order Detail Query** object fail to execute?

3.02 Activity – Correct Answer

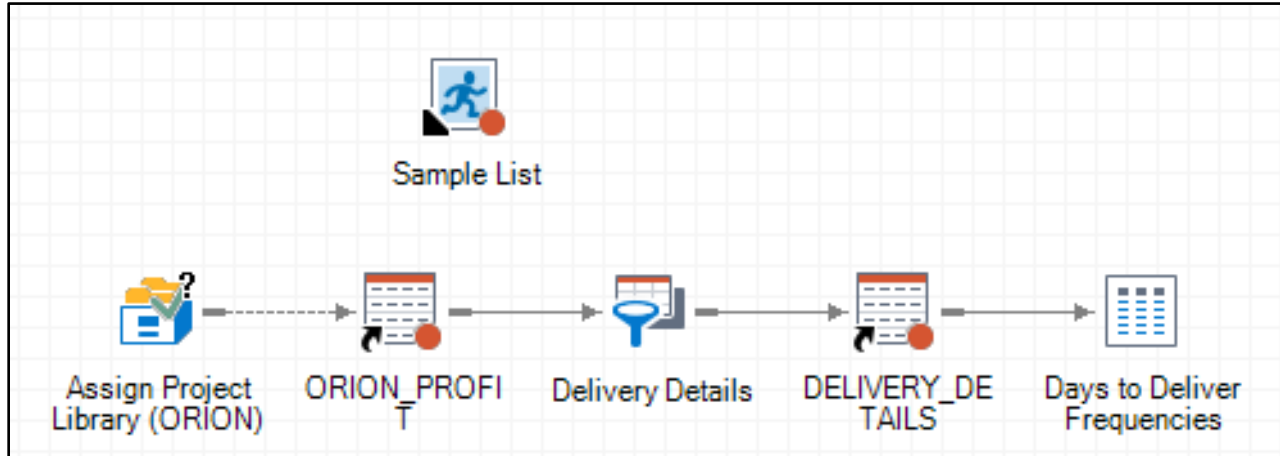
Why did the **Order Detail Query** object fail to execute?

```
1      ;*';*";*//quit;run;
2      OPTIONS PAGENO=MIN;
3      %put ERROR: Unable to get SAS code. The library "ORDATA" on server "Local" was not found.;
ERROR: Unable to get SAS code. The library "ORDATA" on server "Local" was not found.
4
5      QUIT; RUN;
6
```

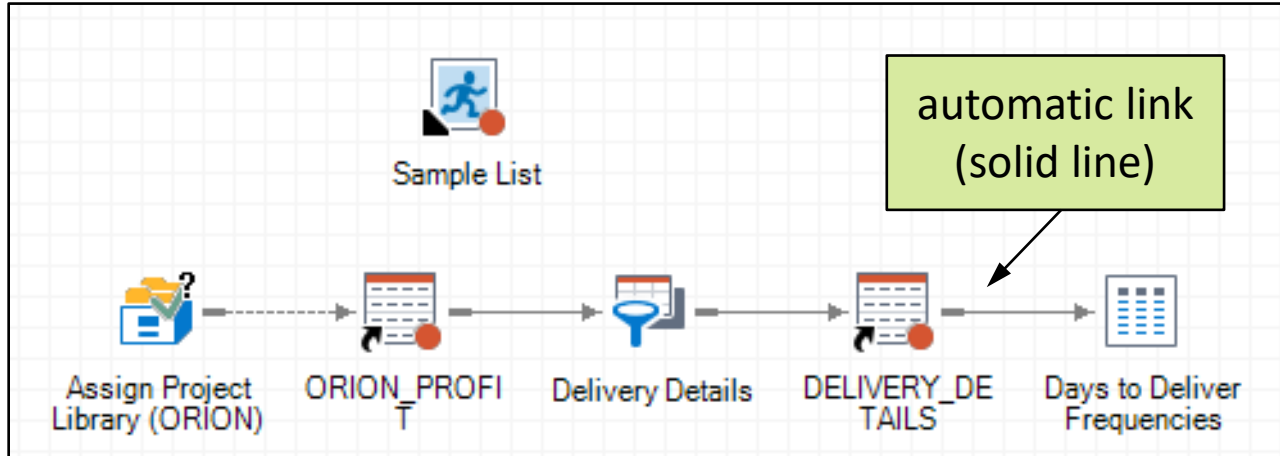
The Assign Project
Library task must
run first to create
the **ORION** library.



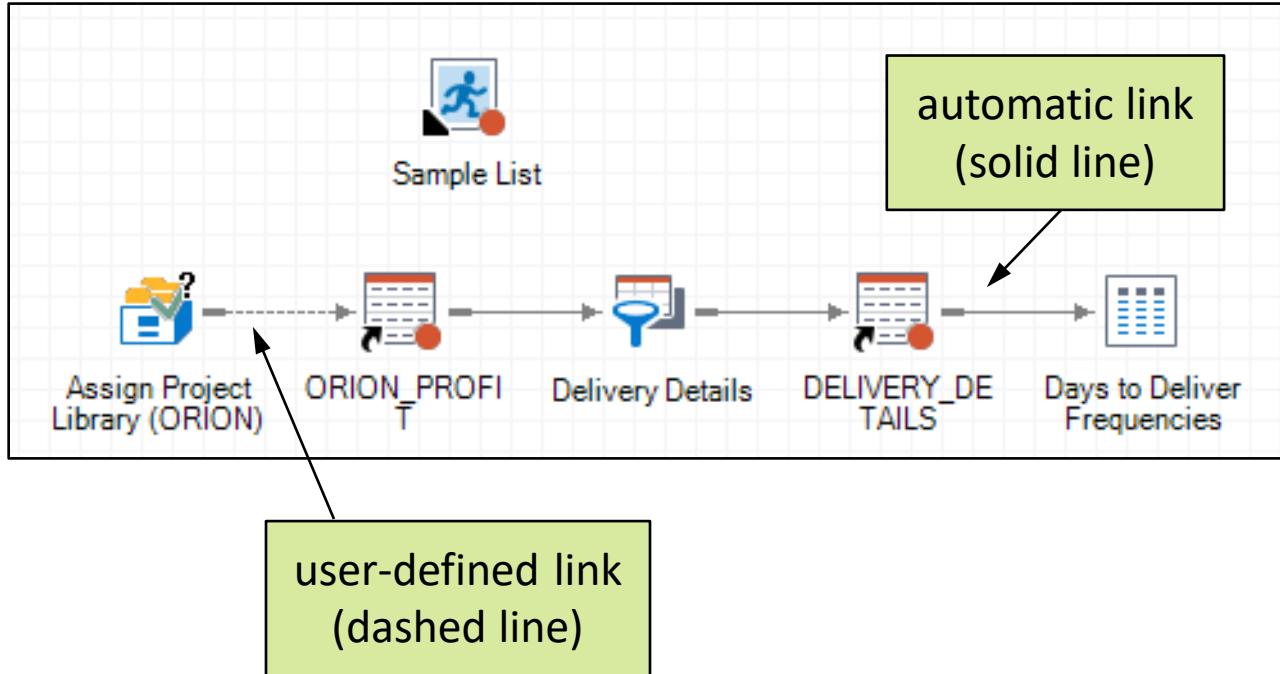
Task Links



Task Links

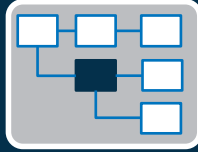


Task Links



Updating Results

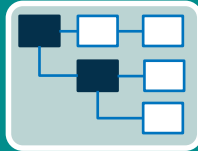
What choices do
I have when
updating results?



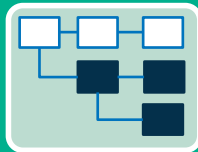
Run selected items



Run process flow



Run to selected item



Run from selected item

3.2 Activity (Cont'd)

1. To remove the existing **ORION** library assignment, in the Servers pane, right-click ***your-server-name*** and select **Disconnect**. Then right-click ***your-server-name*** and select **Connect**.
2. On the Process Flow tab, drag **Assign Project Library** to the top of the process flow.
3. Right-click the **Assign Project Library** object and select **Link to**.
4. In the Link window, select **CUSTOMERS** and click **OK**.
5. Click **Run**. Enter the course data location when prompted and click **Run**.

Is the Profit by Product Category Summary report generated?

3.2 Activity – Correct Answer

Is the Profit by Product Category Summary report generated?

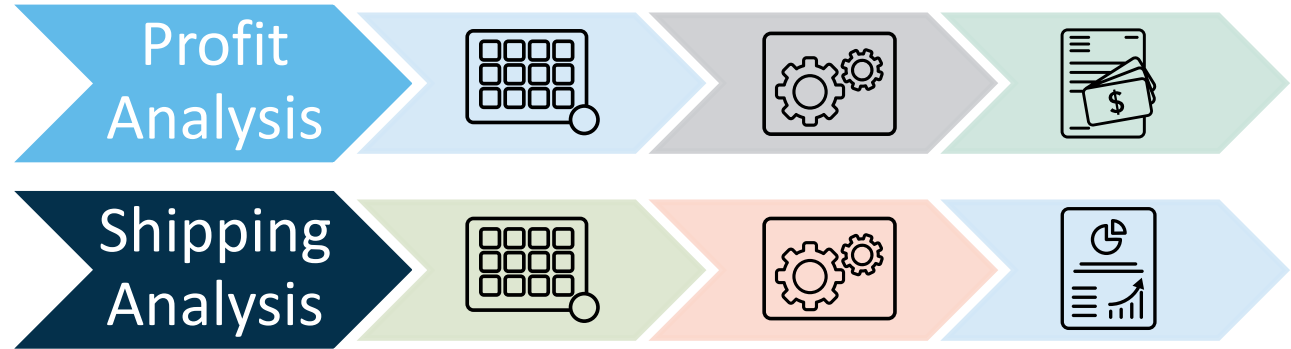
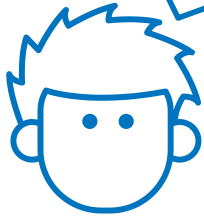
Profit Summary for Product Categories North American Region						
The MEANS Procedure						
Analysis Variable : Profit						
Product_Line	Product_Category	N Obs	Mean	Sum	N	Median
Children	Children Sports	22	27.45	603.95	22	23.00
Clothes & Shoes	Clothes	67	43.86	2938.55	67	30.95
	Shoes	26	69.82	1815.30	26	66.48
Outdoors	Outdoors	61	91.74	5596.40	61	54.75
Sports	Assorted Sports Articles	29	104.27	3023.75	29	92.15
	Golf	63	140.20	8832.53	63	85.95
	Indoor Sports	8	220.02	1760.15	8	62.70
	Racket Sports	5	217.76	1088.80	5	31.70
	Running - Jogging	26	57.52	1495.60	26	44.05
	Swim Sports	4	28.73	114.90	4	28.08
	Team Sports	32	30.34	970.93	32	28.29
	Winter Sports	17	147.72	2511.28	17	102.05

Yes. The **ORION** library is assigned first before any data is accessed.



Multiple Process Flows

I want one project
to analyze profit
and shipping data.

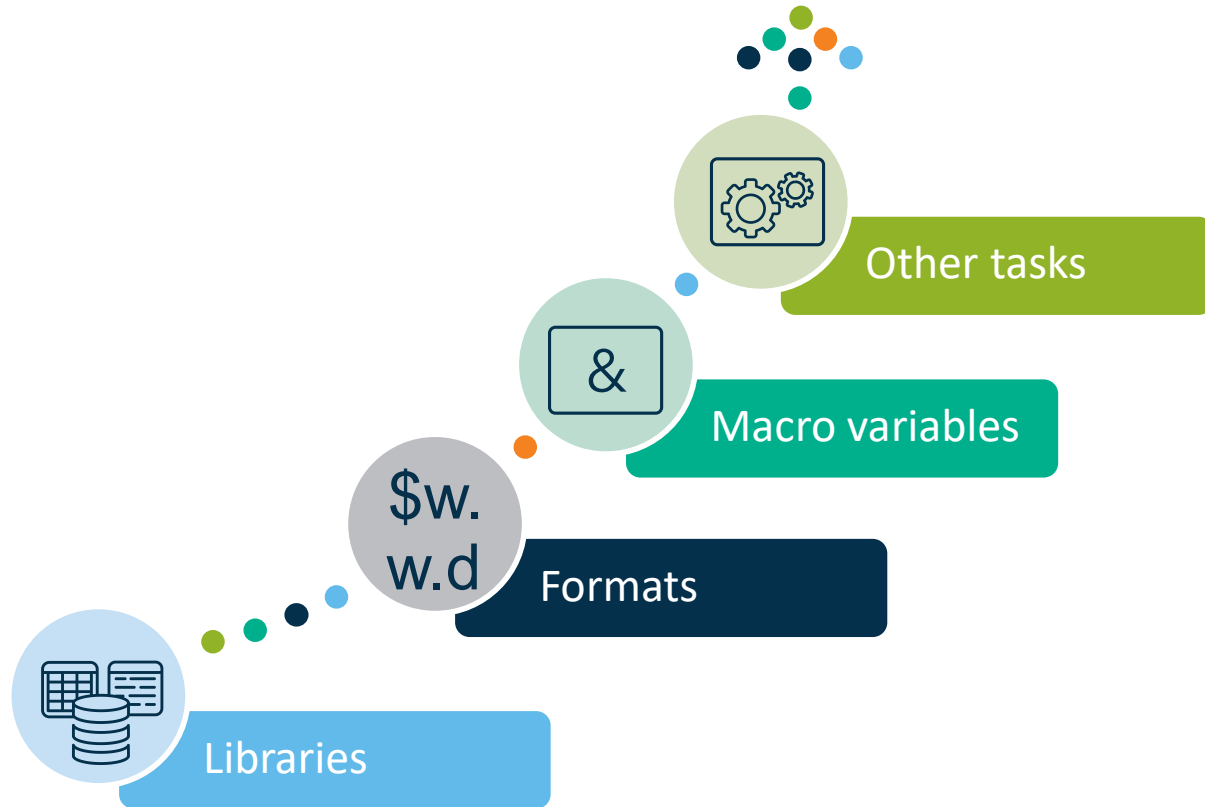




Demo 6: Using Multiple Process Flows

This demonstration illustrates how to move objects between multiple process flows.

Autoexec Process Flow



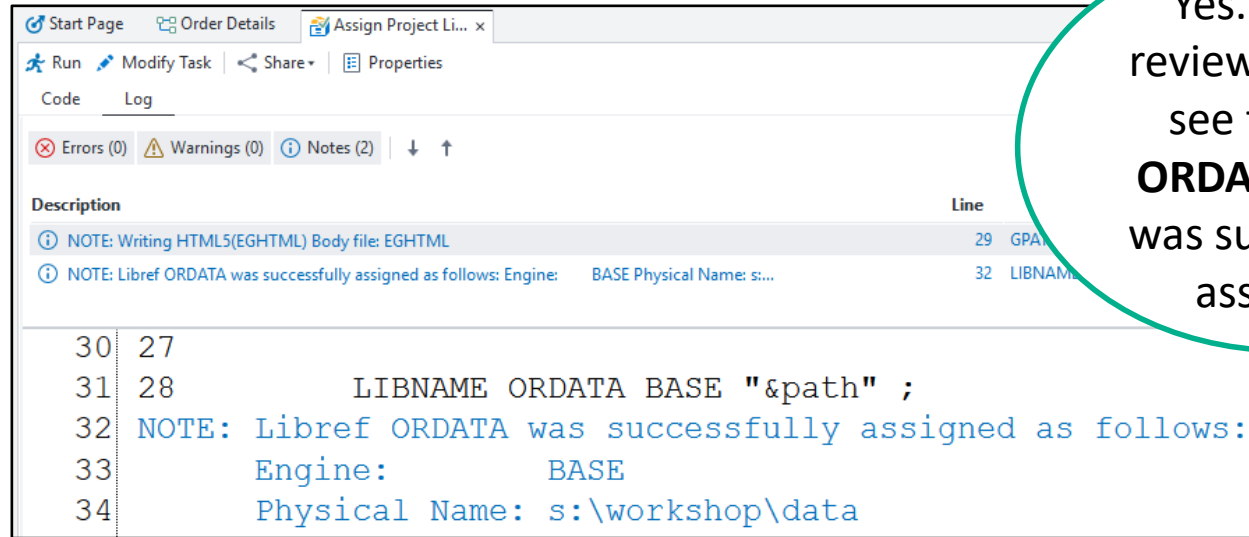
3.3 Activity

1. Create a new process flow and rename it **Autoexec**.
2. Using the Project pane, right-click the **Assign Project Library** object and select **Move to** ⇒ **Autoexec**.
3. Save the project and then close it.
4. Reopen the project. Click **Run** to run the Autoexec process flow.
5. Enter the course data location when prompted and click **Run**.

Was the **ORION** library successfully assigned?

3.3 Activity – Correct Answer

Was the **ORION** library successfully assigned?

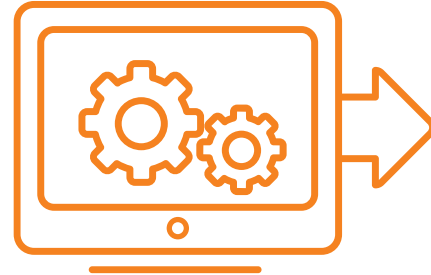
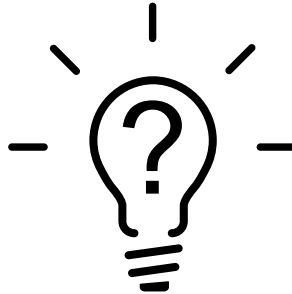
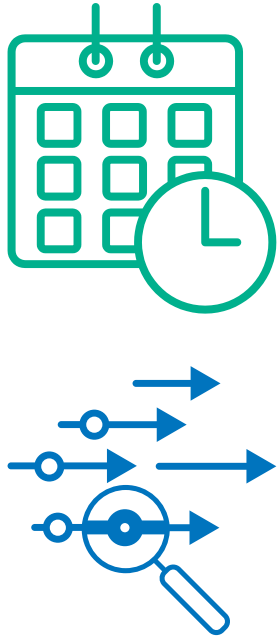


```
30 27
31 28      LIBNAME ORDATA BASE "&path" ;
32 NOTE: Libref ORDATA was successfully assigned as follows:
33      Engine:      BASE
34      Physical Name: s:\workshop\data
```

Yes. When I review the log, I see that the **ORDATA** library was successfully assigned.



Scheduling Updates



Project Organization Recommendations

Use descriptive names

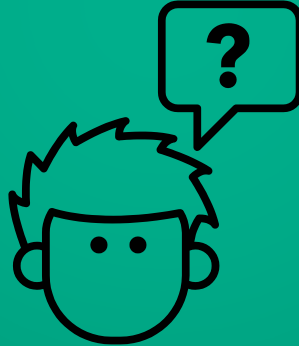
Document details

Arrange objects

Use background colors



Questions?





Practice Exercise 9

This exercise reinforces the concepts discussed previously.