



## Quiz Feedback, Lesson 5: Creating Summarized Output

**Your Score:** 100% Congratulations! Your score of 100% indicates that you've mastered the topics in this lesson. If you'd like, you can review the feedback for each question.

Each observation in the **orion\_profit** data represents a single order or sale. Using the **orion\_profit** data, generate default summary statistics to analyze profit for each customer gender and age group. View the report to answer the next two questions.

1. Which gender and age group generates the highest average profit for Orion Star?

- ☐ a. Female, 15-30 years
- ☐ b. Male, 46-60 years
- ☐ c. Male, 61-75 years

**Your answer:** c

**Correct answer:** c

To get the correct answer, use the Summary Statistics wizard or task and assign **Profit** to the Summary statistics of (Analysis variable) role. Assign **Customer\_Gender** and **Customer\_Country** to the For each value of (Classification variable) role. Male customers in the 61-75 years age group generated the highest average profit at 114.79.

**Review:** [Using the Summary Statistics Wizard, Specifying Additional Options in the Summary Statistics Task](#)

2. Which gender and age group has the highest number of sales?

- ☐ a. Male, 31-45 years
- ☐ b. Female, 15-30 years
- ☐ c. Male, 61-75 years

**Your answer:** a

**Correct answer:** a

Male customers in the 31-45 years age group have the greatest number of sales at 148.

**Review:** [Using the Summary Statistics Wizard, Specifying Additional Options in the Summary Statistics Task](#)

3. \_\_ (1) \_\_ is a variable that is used to group the data. \_\_ (2) \_\_ is a numeric variable for which statistics are calculated.

- ☐ a. (1) classification variable, (2) analysis variable
- ☐ b. (1) analysis variable, (2) classification variable

**Your answer:** a

**Correct answer:** a

Classification variables are either character variables or discrete numeric variables that can be used to group data. Analysis variables are numeric variables that can be used in statistic calculations.

**Review:** [Using the Summary Statistics Wizard](#)

Using the **orion\_profit** data as input, create a summary table that shows the following:

- total profit, shown with the DOLLAR format (width of 8 and no decimal places)
- no statistics labels
- **Customer\_Age\_Group** in columns
- **Customer\_Country** and **Customer\_Gender** in rows, nested
- a grand total for columns and totals at each level for rows

4. Which combination of country, gender, and age group generated the highest profit?

- ☐ a. DE, Male, 61-75 years
- ☐ b. AU, Male, 61-75 years
- ☐ c. US, Female, 15-30 years
- ☐ d. US, Male, 31-45 years

Your answer: **c**

Correct answer: **c**

The highest profit was generated by 15- to 30-year-old female customers in the US (\$8,438). To get the correct answer, use the Summary Tables wizard. In step 2, add **Profit** to the Analysis variables list and select the statistic **Sum**. Select **Hidden** for Statistics labels. Browse to select a table format and choose **Currency** and **DOLLARw.d**. Change the overall width to **8** and the decimal places to **0**. In step 3, add **Customer\_Age\_Group** to the **Columns** box and add **Customer\_Country** and then **Customer\_Gender** to the **Rows** box. In step 4, select **Grand total only** for **Columns** and **Totals at each level** for **Rows**.

Review: [Using the Summary Tables Wizard](#), [Creating a Tabular Report](#), [Enhancing a Tabular Report](#)

---

5. Which country had the highest profit in the 61-75 year age group?

- ☐ a. US
- ☐ b. AU
- ☐ c. DE
- ☐ d. TR
- ☐ e. CA

Your answer: **c**

Correct answer: **c**

Look at the **Total** row for **Country** to determine this. Germany (DE) had the highest total profit in the 61-75 age group (\$4778).

Review: [Using the Summary Tables Wizard](#), [Creating a Tabular Report](#), [Enhancing a Tabular Report](#)

---

6. Which country had missing values for both genders in the 15-30 year age group?

- ☐ a. ZA
- ☐ b. AU
- ☐ c. DE
- ☐ d. US
- ☐ e. CA

Your answer: **b**

Correct answer: **b**

Australia (AU) had missing values for both genders in the 15-30 year age group.

Review: [Using the Summary Tables Wizard](#), [Creating a Tabular Report](#), [Enhancing a Tabular Report](#)

---

7. Which report modification must be performed in the Summary Tables task (Advanced View) rather than the Summary Tables Wizard?

- ☐ a. hide statistics label
- ☐ b. apply a format to all values in the table
- ☐ c. request row or column totals
- ☐ d. change the background color of rows or columns

Your answer: **d**

Correct answer: **d**

You can do all these modifications in the wizard **except** change the background color of rows or columns.

Review: [Enhancing Summary Tables](#), [Enhancing a Tabular Report](#)

8. Which task provides an option to create graphics to view the distribution of your data?

- ☐ a. Summary Statistics
- ☐ b. Summary Tables
- ☐ c. Both tasks provide this option.

**Your answer:** a

**Correct answer:** a

In the Summary Statistics task and wizard, you have the option of creating graphs such as a histogram to show the distribution of your data.

**Review:** [Using the Summary Statistics Wizard](#)

---

Close

---

Copyright © 2017 SAS Institute Inc., Cary, NC, USA. All rights reserved.