

Frequency distribution of salmon species

| | A | B |
|----|----|---------|
| 1 | ID | Species |
| 2 | 1 | Sockeye |
| 3 | 2 | Chum |
| 4 | 3 | Chinook |
| 5 | 4 | Chum |
| 6 | 5 | Pink |
| 7 | 6 | Sockeye |
| 8 | 7 | Chinook |
| 9 | 8 | Pink |
| 10 | 9 | Pink |
| 11 | 10 | Coho |

What formula should we use?

- A. COUNT
- B. AVERAGE
- C. FREQUENCY
- D. AVERAGEIF
- E. COUNTIF

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Write the formula to calculate the frequency of Sockeye

Hint: = COUNTIF(range, criteria)

Answer: =COUNTIF(B2:B11, "Sockeye")

Frequency distribution of salmon species - PivotTable

| | 1 | 2 | 3 | 4 |
|----|----|---------|--------|--------|
| | A | B | C | D |
| 1 | ID | Species | Weight | Length |
| 2 | 1 | Sockeye | 2.7 | 63 |
| 3 | 2 | Chum | 2.9 | 45 |
| 4 | 3 | Chinook | 7.8 | 39 |
| 5 | 4 | Chum | 3.2 | 48 |
| 6 | 5 | Pink | 1.6 | 30 |
| 7 | 6 | Sockeye | 1.9 | 50 |
| 8 | 7 | Chinook | 9.2 | 67 |
| 9 | 8 | Pink | 1.8 | 35 |
| 10 | 9 | Pink | 2.2 | 42 |
| 11 | 10 | Coho | 4.8 | 59 |



| Species | Frequency |
|--------------------|-----------|
| Chinook | 2 |
| Chum | 2 |
| Coho | 1 |
| Pink | 3 |
| Sockeye | 2 |
| Grand Total | 10 |

Which fields go under which areas?

Filters

Columns

Rows

Values

Frequency distribution of salmon species - PivotTable

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Species

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Species

Value Field
Settings:
Count

Average weight by species - PivotTable

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| Species | Average of Weight |
|--------------------|-------------------|
| Chinook | 8.50 |
| Chum | 3.05 |
| Coho | 4.80 |
| Pink | 1.87 |
| Sockeye | 2.30 |
| Grand Total | 3.81 |

Which fields go under which areas?

Filters

Columns

Rows

Values

Average weight by species - PivotTable

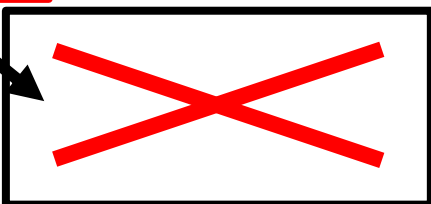
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Which fields go under which areas?

No filter on top

Filters



Columns



Rows

Species

Values

Weight

Value Field Settings:
Average

Fields under the Columns areas → List the values

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| | Weight | 1.6 | 1.8 | 1.9 | 2.2 | 2.7 | 2.9 | 3.2 | 4.8 | 7.8 | 9.2 | Grand Total |
|-------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|
| Species | | | | | | | | | | | | |
| Chinook | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Pink | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Grand Total | | | | | | | | | | | | |

Which fields go under which areas?

Filters

Columns

Rows

Values

Fields under the Columns areas → List the values

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| | Weight | Grand Total |
|-------------|-----------------------------------------|-------------|
| Species | 1.6 1.8 1.9 2.2 2.7 2.9 3.2 4.8 7.8 9.2 | |
| Chinook | | |
| Chum | | |
| Coho | | |
| Pink | | |
| Sockeye | | |
| Grand Total | | |

Lists all of the weight values

Filters



Columns

Weight

Rows

Species

Values



You might want to do this for questions that want to find values that are affected by 2 variables