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SI 201: Barbara Ericson

### **Project 1 Checkpoint**

- the name of the dataset you are using,
- the columns you will be working with,
- the calculations you will be performing,
- the function decomposition diagram, and
- the names of collaborators (if any)

**Dataset:** Penguins

- [penguins](#): A dataset containing detailed information about penguins gathered from Dr. Kristen Gorman and the Palmer Station, Antarctica LTER. Uploaded to Kaggle by Data Science Sean.

**Nested dictionary example** →

```
{1: {species: Adelie, island: Dream, bill_length_mm: 39.5, bill_depth_mm: 16.7, flipper_length_mm: 178, body_mass_g: 3250, sex: female, year: 2007}}
```

**Columns being used:**

**Columns used for calculating average bill length for a specific species:**

Row Number

species

bill\_length\_mm

**Columns used for calculating percentage of female penguins on different islands:**

Row Number

island

sex

**Calculations:**

1. The average value of bill\_length\_mm for a specific species type

Calculation example: What is the average bill length (bill\_length\_mm) for Gentoo penguins?

2. The percentage of a dataset that contains a specific value for a categorical variable

Calculation example: What percentage of penguins on Dream island are female?

**Names of collaborators:** N/A, I am working alone on my project

## Function Decomposition Diagram:

