

## Technical Project

### **Data Compilation**

The [Guild Education SQL](#) workbook contains fake data similar to what exists in Guild's internal database. Each tab represents one table. Please make a copy of the workbook, and using the tables provided:

- Create a quick diagram for how you think these tables (tabs) are related (i.e. what is one to many, many to many, etc.)
- Create a single table to be used for analysis by joining these sources (include your SQL code, and document any issues you may encounter with the data, and any assumptions you make).

### **Data Understanding & Insights**

Use your table to pull the following information (provide 1 query per question and your corresponding answer). Please state any of your assumptions. **SQL is required.**

- Total number of contacts (students) who are not enrolled in any courses.
- For each program category count the number of distinct contacts (students) that are enrolled in courses.
- Based on your best interpretation of the data, which application type has the most number of successful students?

### **Data Structures**

- What ideas do you have, if any, to better structure the data?