I found a resource online that has a lot of helpful tips on exporting data as a CSV file in java very easily. It contains a class that we could use in our program that easily writes the data you want in a csv file .

<https://www.mkyong.com/java/how-to-export-data-to-csv-file-java/>

The program is very simple, all you do is add all of the fields that you want in a single line to list and then pass that list into a function that is in code contained in the link, and it writes that line into the file. This can be done in a loop, and after it loops through each result, it will fill in the full CSV file, and it will be ready to be exported.

In the future we need to clarify the scope of the data that professor johnson wants exported with this csv file. As described in one of the other documents I submitted for this sprint, “Modifying User Information Stored in the Database”, we could pull from the table that the backend has called responses, and from that we could get the emoji id, schedule ID, and timestamp. The big question that we are dealing with here is does that data suffice for export, so that he could run queries based on what the responses were at different times? Or does he also want to know names along with individual responses? If that is the case, we will need to discuss with the database team, to make sure that each response has data tied to specific users. I suspect that the data in the responses table will be enough, because it does not seem like cutting the data down to responses from individual users would be particularly useful.

Overview of how we will deal with this part of the project

Using the CSV writer class in the link above, a possible configuration of this part of the project is as follows:

1. Query the database for the response data
   1. This will come to us as a json file
2. Parse the json file and write the data into a class we create that holds the data from each individual response (emoji\_id, schedule\_id, timestamp)
3. Write a loop that goes through every response data object, and adds each of its fields to an array and then write to csv file.

Following the above steps should be sufficient to getting the data exported into a CSV file.