After communicating with Perry Story from the database group, I discovered that we will communicate with the database by connecting with a MySQL database, rather than having to deal with AWS at all. Using classes designed to read to and write from MySQL databases, we will be able to do everything we need to do with the backend, without having to consider AWS at all.

<https://alvinalexander.com/java/java-mysql-select-query-example>

The above link has resources to help connect to a MySQL server. I will pull out some of the most important and relevant things to our project below.

To perform a SQL SELECT query from Java, you just need to follow these steps:

1. Create a Java Connection to the MySQL database
2. Define the SELECT statement
3. Execute the SELECT query, getting a Java ResultSet from that query
4. Iterate over the ResultSet, getting the database fields (columns) from each row of data that is returned
5. Close the Java database connection
6. Catch any SQL exceptions that may come up during the process

Regarding your setup, the main things you’ll need are a Java compiler (SDK), the MySQL JDBC database driver, and a MySQL instance running on your computer (or running on another computer you can access).

Code example for reading from MySQL database on page below

The following link has a comprehensive explanation of how to use MySQL database with Java. At the bottom this link has an example of how to export to a CSV file, which will be very useful.

**What format will data be transmitted in?**

Using the JDBC, we will be able to read from specific fields in the database into java data types, which makes it easy.

**What data will need to be modified? Which tables in the database?**

Users

Read

Phone, first\_name, last\_name, is\_active, email, password, created, is\_admin

Write

Phone, first\_name, last\_name, is\_active, email, password, created, is\_admin

Schedule

Read

User\_id, send\_at, sent

Write

Send\_at

Responses

Read

Emoji\_id, schedule\_id, ts (timestamp)



