Project 2 Development Log:

9/22/20 | 8:00am – Met in lab to discuss environment setup. Assisted each other in downloading necessary software to run the MySQL database in docker.

9/24/20 | 8:00am – Met once again to troubleshoot development environments. Moved on to Eclipse setup/experimentation in the MySQL Workbench.

9/24/20 | 12:00pm – Continued troubleshooting database connection errors. Some group members are struggling with connecting to the database via JDBC commands. Began researching MySQL queries to fulfill part 2 requirements.

9/26/20 | 4:00pm – Implemented jdb-show-all-primary-keys. Utilized Discord’s streaming to have one member type while the rest research and/or review code.

9/26/20 | 5:45pm – Implemented jdb-find-column. Learned how to use a loop with ResultSet’s metadata in order to print all columns of the result.

9/26/20 | 6:30pm – Created default case so that any SQL query can be passed through to the database via the Java code.

9/26/20 | 7:30pm – Wrapped up Saturday meeting. Pushed code to GitHub so all members could test queries during non-meeting times.

9/27/20 | 12:00pm – Implemented jdb-get-view. Attempted creating a jdb-create-view function for testing but can’t write to the database. Have to create all views in the workbench first.

9/27/20 | 1:00pm – Finished functionality of jdb-stat. Case makes use of Java lists to contain data from the database columns. Makes it much more straightforward to find the mean and median.

9/27/20 | 2:30pm – Implemented finding related tables by primary key.

9/27/20 | 3:00pm – Created a join function for two tables. Had to wait many minutes for the output.

9/27/20 | 3:20pm – Added custom commands for total city count, mode.

9/27/20 | 3:38pm – Calculated total number of customers.

9/29/20 | 8:00am – Discussed the structure and formatting of the GUI in lab.

10/03/20 | 12:32pm – Added the frame for the dashboard by using JFrame.

10/03/20 | 12:46pm – Added the buttons using JButton for each custom SQL command.

10/03/20 | 1:04pm – Added the button for taking in raw SQL commands.

10/03/20 | 1:33pm – Implemented addActionListener methods to activate the buttons to interpret the different commands.

10/03/20 | 2:16pm – Created the switch statement that would take in various commands.

10/03/20 | 2:32pm – Added the find column and search path commands to the GUI

10/06/20 | 12:15pm – Added the show all primary keys command.

10/06/20 | 1:05pm – Added the stat commands as well as the custom commands.

10/06/20 | 2:01pm – Added the show related tables, search path, and search and join commands

10/07/20 | 2:01pm – Added the 4 built-in functions to the Graphic User interface.

10/07/20 | 2:34pm – Formatted the buttons and added a text box to type in RAW commands as well as other user-inputted commands.

10/12/20 | 3:04pm – Created a second panel for large-scale data to have more readability instead of cramming it into a small text box.

10/12/20 | 3:04pm – Installed Maven to run GraphVix.

10/12/20 | 3:04pm – Ran Graphvix by adding dependencies to POM file

10/13/20 | 8:00am – Added a third panel that will serve as the panel for the dashboard.

10/14/20 | 3:02pm – Ran and installed XChart by adding dependencies to POM file in order to create the charts and graphs for the dashboard

10/14/20 | 3:15pm – Created the first graph that stored yearly sales.

10/14/20 | 4:15pm – Created the second graph that stored monthly sales.

10/15/20 | 12:00pm – Loaded the two graphs and save them as images.

10/15/20 | 1:00pm – Stored the graphs into a sub-directory.

10/17/20 | 6:00pm – Implemented the graphs onto the dashboard.

10/17/20 | 7:00pm – Created a pie chart that for product categories.

10/18/20 | 3:00pm – Added the third graph on dashboard.

10/18/20 | 4:15pm – Created a bar graph that calculated the sales for product IDs.

10/18/20 | 4:49pm – Added the fourth graph on dashboard.

10/18/20 | 4:18pm – Updated the design document to be more detailed and concise.

10/18/20 | 6:00pm – Finished the final touches and submitted Project 2.