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Due: 4/6/7
CMPT 220 Thursday

Milestone
(Marist IHSA Point Calculator)

The goal of this project is to tackle the Marist Equestrian Team's problem of calculating individual riders points. Being on the team myself, I have seen that there is not only a lack of organization in the recording of points but also a lack of knowledge of rider's individual points. With the uses of this database the Marist Equestrian team will be able to easily access information on riders point and competition class with the input of information on 6 easy questions. This will help with the organization of the team but also can help the trainer with strategies for who the show in the upcoming show season. Although this project is not done the begining versions have started to evolve. This writeup addresses, a quick summer of the project, what has been accomplished, how it was accomplished and lastly what I still need to accomplish.

This database project uses the language mySQL to access the database. It also uses the JDBC api that allows easy communication between mySQL and my java code. It is set up so the database table collects information on the First and Last name of a rider as well as their competition class and total points accumulated. Since riders can be entered in more than one class, their names are listed twice but have different competition class information. This information is entered into the database when the user types in the following information: first name, last name, competition class, place won in the class, and if they are a new rider or new to a class, and amount of points if

known. However if the rider is already entered into the database under that same class the amount of points the rider has gained is updated.

The inputs from the user then first go through the point Calculator method. This method takes the input value from the received award from the show and then passes it through a switch statement and returns the points gained. This switch statement determines the amount of points received from the received ribbon and placement. An example of this code is if the user inputs a 2 representing second place the method would return the int 5 representing the number of points the rider collected.

The data gained from the point calculating method is then used for the method that accesses that database by selecting a row and calculates the total points a rider has gained throughout their showing experience in that specific class. This method is run when the user types no to question 5 and returns the total points.

The total points is then used for the method that updates the total points for a rider in the database. If is run after the total point calculator and returns nothing. The last method that has been made is one that adds riders into the database along with all the correct information gained from the user. This method is called on when the user enters yes to question five. The method then accesses the database and adds the proper information to the proper column and returns nothing.

So far I have been able to compile a document that has both the JDBC code and java commands that asks for user's information and updates a database. The database and table have also been set up in mySQL with the help of the terminal. During the

process I learned the basics of mySQL, JDBC, and other small little java code to make the program work.

My goals for this project include making more methods and making my project more need and orderly. I plan to make at least 2 more methods, one that is able to delete columns in a table and the next that selects information from the database. The method that deletes information will help the user edit the table in case mistakes were made. These two methods will help my current project look neat and orderly.