Assignment 2:

Dataset:

* download hero\_hero\_battles.sql
* open the file in mySQL workbench and
* run the script to create hero\_battles table under hero database

Activity 1: **Filtering Data Using WHERE Clause in SQL**

In this assignment, you’ll be practicing filtering and ordering SQL queries.

1. Start by returning all rows and columns from the hero\_battles data table.
2. Now return the same result set but sort the data by ascending the number of enemies (num\_enemies) column.
3. Take that same query but change it and sort descending instead.
4. Great work! Keep the current query, but only show rows where the name column is equal to Batman.
5. Next, edit the prior query to return the result set that is not Batman.
6. Write a query that returns a data set that contains all the data where the number of enemies fought was 1 or 2.
7. Now take that and write a query with all the data where the number of enemies was 1, or 2, or 10, or 12. Use an IN clause.
8. Make a new query that returns any row where the name column contains the phrase “man”.

Activity 2: **Aggregation and Summary Functions in SQL**

In this assignment, you’ll be practicing fundamental SQL aggregation functions.

1. Start by returning all rows and columns from the hero\_battles data table.
2. Now, return the number of rows in the data set.
3. Write a query to select the column name’s max and min. Hint: use MIN() and MAX().
4. Write a query to select both the sum and the average of the column num\_enemies
5. Now take that query of the sum and average of enemies, and group it by the column name
6. Lastly, take the query we’ve been building and ORDER by the average.

Activity 3: **Miscellaneous Analysis in SQL**

In this assignment, you’ll continue to flex your SQL muscles.

1. Start by casting the value “24.423423” to a decimal value.
2. Next, return the date, time, hour, month, second, and minute data for the hero\_battles table based off of the date column.
3. Create a histogram for the number of enemies fought. No need to round.
4. Write a query to replace all of the occurrences of Batman with Batwoman. Return only the name column.
5. Make a new query that creates a sentence that says, “This battle occurred at 14 o’clock,” but replace 14 with the hour of that particular battle.