Using the Avengers Database, complete the queries below.

1. Show all of the information on the Avengers.

a. Query: SELECT \* FROM avengers.avengers

b. Columns: 21

c. Expect Row Count: 171

2. Create a new table with information from another super hero group [can be imported from elsewhere or fictitious]. Make sure there is an appropriate header and must be at least 30 rows.

a. Query: CREATE TABLE avengers.superheroes (

newhero\_id INTEGER unsigned NOT NULL auto\_increment,

name VARCHAR(30) NOT NULL,

appearances varchar(10),

current VARCHAR(3) NOT NULL,

gender VARCHAR(6) NOT NULL,

PRIMARY KEY (newhero\_id),

INDEX (name) );

b. Columns: 5

c. Expect Row Count: 30

After creating the table with the query above I used the following to create 30 rows of fake superheroes

INSERT INTO avengers.superheroes(name, appearances, current, gender)

VALUES

(‘Jack Rabbit’, ‘43’, ‘YES’, ‘Male’),

Etc…

3. Add a column to your new table (the new superheros) for those who are interested in joining the Avengers. Make this be randomly assigned.

a. Query: ALTER TABLE avengers.superheroes

ADD avengers\_interest VARCHAR(3);

SELECT \*,

CASE WHEN RAND() < 0.5 then ‘Yes’ else ‘No’ end as avengers\_interest

FROM avengers.superheroes;

b. Columns: 6

c. Expect Row Count: 30

4. Add a column to your new table (the new superheros) for their favorite Avenger (have it randomly choose between Anthony Edward "Tony" Stark, Robert Bruce Banner, & Victor Shade).

a. Query: SELECT \*,

CASE WHEN RAND() < 0.33 then 'Tony Stark' else < 0.66 then 'Bruce Banner' else > .66 then 'Victor Shade' end as fav\_superhero

FROM avengers.superheroes;

b. Columns: 7

c. Expect Row Count: 30

5. Create an association between the two tables for who is interested in joining the Avengers.

a. Query: SELECT avengers.name, avengers.current, avengers.gender, avengers.honorary, superheroes.name, superheroes.avengers\_interest, superheroes.fav\_superhero

FROM avengers.avengers

INNER JOIN avengers.superheroes ON avengers.name=superheroes.name;

b. Columns: 7

c. Expect Row Count:

6. Show your association and create a new table for that association.

a. Query: CREATE TABLE avengers.avg\_interest (

name VARCHAR(30) NOT NULL,

appearances varchar(10),

current varchar(3) NOT NULL,

gender varchar(6) NOT NULL,

avengers\_interest varchar(3) NOT NULL,

fav\_superhero varchar(50) NOT NULL );

b. Columns: 6

c. Expect Row Count: 30

7. List all Avengers who have more than 1000 appearances in alphabetic order.

a. Query: SELECT appearances, name FROM avengers.avengers

WHERE appearances > 1000

ORDER BY name ASC

b. Columns: 17

c. Expect Row Count: 20

8. What Avengers do not have more than 1000 appearances?

a. Query: SELECT name, appearances FROM avengers.avengers

WHERE appearances < 1000

ORDER BY appearances ASC

b. Columns: 2

c. Expect Row Count: 151

9. Not more than 500?

a. Query: SELECT name, appearances FROM avengers.avengers

WHERE appearances < 500

ORDER BY appearances ASC

b. Columns: 2

c. Expect Row Count: 128

10. Not more than 50?

a. Query: SELECT name, appearances FROM avengers.avengers

WHERE appearances < 50

ORDER BY appearances ASC

b. Columns: 2

c. Expect Row Count: 40

11. Not more than 50 and female?

a. Query: SELECT name, appearances, gender FROM avengers.avengers

WHERE appearances < 50

AND GENDER = “female”

b. Columns: 18

c. Expect Row Count: 3

12. More than 150, male, and are full members?

a. Query: SELECT name, appearances, gender, honorary FROM avengers.avengers

WHERE appearances > 150

AND gender = “male”

AND honorary = “full”

b. Columns: 4

c. Expect Row Count: 51

13. Write a function that can add a new superhero to the Avengers if they are interested in becoming an Avenger and if their favorite Avenger is Victor Shade.

a. Query:

b. Columns:

c. Expect Row Count:

14. Write a function that counts the total amount of records(rows/entries) in a given table.

a. Query: SELECT COUNT(\*) FROM avengers.avengers

b. Columns: 1

c. Expect Row Count: 1

15. Call your totalRecords function on the avengers table. What is the output?

a. Query: SELECT COUNT(\*) FROM avengers.avengers

b. Output: 171

C: Columns and Rows: 1/1

16. There is room for 3 new Avengers so invoke your newMember function 3 times to add 3 new members to the Avengers.

a. Query:

b. Columns:

c. Expect Row Count:

17. Show that the addition of new members was successful.

a. Query:

b. Columns:

c. Expect Row Count:

18.  Remove any tables that are not the original avengers table and prove that they have been removed.

a. Query:

b. Columns:

c. Expect Row Count: