Please complete each of the following exercises #1-18. For each exercise, include the question followed by your query, the columns you received, and the expected row count along with any pertinent screenshots of your terminal.   
  
**Example output:**

1. Show all of the information on the Avengers.

**Questions:**

1. Show all of the information on the Avengers

a. Query:

- SELECT \* FROM avengers

b. Columns:

- 21 columns

c. Expected row count:

- 171 rows

1. 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.

- Query:

CREATE TABLE new\_avengers SELECT \* FROM avengers;

- Columns: 21

- Rows: 17

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

- Query:

ALTER TABLE new\_avengers ADD COLUMN prospect TEXT

UPDATE new\_avengers

SET prospect = (case floor(rand() \*2)

WHEN 0 THEN "YES"

WHEN 1 THEN "NO"

END)

- Rows affected: 0

- Colums: 22 returned

1. 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).

- Query:

UPDATE new\_avengers

SET favorite\_avenger = (case floor(rand() \*3)

WHEN 0 THEN ‘Anthony Edward "Tony" Stark’

WHEN 1 THEN ‘Robert Bruce Banner’

WHEN 2 THEN ‘Victor Shade’

END)

Colums: 1

Rows: 171

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1. Create an association between the two tables for who is interested in joining the Avengers.
2. Show your association and create a new table for that association.
3. List all Avengers who have more than 1000 appearances in alphabetic order.

Query:

SELECT appearances FROM new\_avengers

WHERE appearances > 1000

ORDER BY appearances ASC

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

- Query:

SELECT appearances FROM new\_avengers

WHERE appearances < 1000

ORDER BY appearances ASC

1. Not more than 500?

- Query:

SELECT appearances FROM new\_avengers

WHERE appearances < 500

ORDER BY appearances ASC

1. Not more than 50?

- Query:

SELECT appearances FROM new\_avengers

WHERE appearances < 50

ORDER BY appearances ASC

1. Not more than 50 and female?

- Query:

SELECT name, appearances FROM new\_avengers

WHERE appearances < 50 AND gender LIKE 'FEMALE'

ORDER BY appearances ASC

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

- Query:

SELECT name, appearances FROM new\_avengers

WHERE appearances > 150 AND gender LIKE 'MALE' AND honorary LIKE 'FULL'

ORDER BY appearances ASC

1. 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.

-Query:

INSERT INTO avengers SELECT \* FROM new\_avengers

WHERE prospect LIKE ‘YES’ AND favorite\_avenger LIKE ‘VICTOR SHADE’;

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

-Query:

SELECT COUNT(\*) FROM superheros

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

-Query:

SELECT COUNT(\*) FROM avengers

- output : 171

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

- Query:

INSERT INTO avengers SELECT \* FROM new\_avengers

WHERE prospect LIKE 'YES' AND favorite\_avenger LIKE 'victor shade'

LIMIT 3;

1. Show that the addition of new members was successful.
2. Remove any tables that are not the original avengers table and prove that they have been removed.

- Query:

DROP TABLE superheros