Assignment 5

Unit 7 - Week 5

1. Which of the following are true?
   a. A key is a unique identifier of a record.
   b. A table relation is a collection of records.
   c. A database is a collection of tables.
   d. A query is a statement that can be executed by a database management system.

2. Consider the SQL query below:
   
   ```sql
   SELECT column1, column2 FROM table;
   ```
   
   Which of the following will be included in the output of this query?
   a. All columns in the specified table
   b. Only column1 in the specified table
   c. Only column2 in the specified table
   d. None of the above

3. What is the probability of the sentence "It is raining tomorrow."?

4. Using SQL algorithms, find the number of pages in the text "The book is about the history of the world." by using the probability of each word.

5. Using the Naive Bayes algorithm, what is the probability of generating the sentence "It is raining tomorrow." given the words "rain," "tomorrow," and "it is?"