

1. Define what an attribute is in the context of a database.

An attribute is a property that describes an entity

2. Why is it important to have a unique identifier for each item in a database?

A primary key aids to assist in identifying an attribute without querying a different data

3. Provide at least five examples of attributes that might be associated with a "Patient" entity in a hospital database.

Patient Id

Name

Date of birth

Gender

Admission date

4. Imagine a library book. List three characteristics that help distinguish one specific book from another.

Year of publisher

Name of author

Barcode of the book

5. Explain the difference between a single-valued attribute and a multi-valued attribute, providing an example of each

Single valued attributes are attributes that accept only one value for example age or gender while multi valued attributes that accept more than one value for example selecting units