* Limitations of using files for Data
* Overview of Databases
* Different types of Databases
* Overview of RDBMS Technologies
* Use Cases for RDBMS Databases
* Important Concepts with in RDBMS for Developers
* Relationship between Programming Languages and Databases

1. Which of the following is a limitation of using files for data?

a) Difficulty in managing large amounts of data

b) Lack of security for data

c) Inability to perform complex queries

d) All of the above

Answer: d) All of the above

2. Which of the following is a correct statement about databases?

a) Databases store data in files on a computer

b) Databases are used only in large enterprises

c) Databases are organized collections of data

d) Databases cannot be accessed over a network

Answer: c) Databases are organized collections of data

3. Which of the following is a non-relational database?

a) MySQL

b) Oracle

c) MongoDB

d) Microsoft SQL Server

Answer: c) MongoDB

4. Which of the following is a characteristic of a relational database?

a) Data is stored in tables

b) Data is stored in files

c) Data is stored in a hierarchical structure

d) Data is stored in a network structure

Answer: a) Data is stored in tables

5. Which of the following is a common use case for an RDBMS database?

a) Storing unstructured data

b) Managing large amounts of multimedia content

c) Online transaction processing

d) None of the above

Answer: c) Online transaction processing

6. What is a primary key in a relational database?

a) A column or set of columns that uniquely identifies each row in a table

b) A foreign key from another table

c) A column that is used to group related data

d) A column that is used to sort data in a table

Answer: a) A column or set of columns that uniquely identifies each row in a table

7. Which programming language is commonly used for interacting with databases?

a) Java

b) Python

c) C++

d) All of the above

Answer: d) All of the above

8. Which of the following is not a limitation of using files for data?

a) Difficulty in managing large amounts of data

b) Lack of security for data

c) Inability to perform complex queries

d) Ability to easily share data over a network

Answer: d) Ability to easily share data over a network

9. Which of the following is a benefit of using a database?

a) Data can be easily lost or corrupted

b) Data can only be accessed on a single device

c) Data can be easily shared and accessed by multiple users

d) All of the above

Answer: c) Data can be easily shared and accessed by multiple users

10. Which of the following is a graph database?

a) Oracle

b) MySQL

c) Neo4j

d) MongoDB

Answer: c) Neo4j