

1. Which of the following is true about a VARCHAR?

0 / 1 point

- ☐ It uses the same amount of space in the database irrespective of the length of the actual data stored in it.
- ☒ Its length is fixed.
- ☐ It is a string of variable length.
- ☐ Its maximum length is denoted in brackets after the type name such as VARCHAR(10).

Expand

Incorrect

Incorrect. Review the Data Types video.

2. In which decade did relational databases become a commercial success?

1 / 1 point

- ☐ 2000s
- ☐ 1990s
- ☐ 1970s
- ☒ 1980s

Expand

Correct

Correct! Relational databases became a commercial success in the 1980s.

3. Which statement is true with regard to the data access layer in a database management system software (DBMS)?

1 / 1 point

- ☒ It contains an engine that compiles queries, retrieves data, and returns a result set.
- ☐ It encapsulates the application and business logic.
- ☐ The client typically directly accesses it.
- ☐ It is where the data is stored.

Expand

Correct

Correct! The database server contains an engine that compiles queries, retrieves and processes the data, and returns the result set.

4. Which NoSQL functionality does PostgreSQL use to store hierarchical data?

0 / 1 point

- ☒ HSTORE
- ☐ JSON
- ☐ EDB
- ☐ Objects

Expand

Incorrect

Incorrect. Review the PostgreSQL video.

5. Which statement is true about an entity-attribute model regarding a movie?

1 / 1 point

- ☐ The movie is a primary key.
- ☐ The movie is a column.
- ☒ The movie is an entity.
- ☐ The movie is an attribute.

Expand

Correct

Correct! An entity is the subject of focus.

6. Which of the following Db2 features can be used to improve performance and reduce overheads for analytic workloads by directing queries to specific columns?

1 / 1 point

- ☐ Data Skipping
- ☒ Column Store
- ☐ The Common SQL Engine
- ☐ Machine Learning Algorithms

Expand

Correct

Correct! You can use the column store feature to improve performance and reduce overheads for analytic workloads by directing queries to specific columns rather than processing an entire data table.

7. Which of the following attributes is appropriate to use as a primary key?

1 / 1 point

- ☐ Street address
- ☒ Social security number
- ☐ Author
- ☐ Copyright date

Expand

Correct

Correct! A primary key should be a unique value.

8. Which of the following is a disadvantage of using indexes?

1 / 1 point

- ☐ Reduce need to sort data
- ☐ Guarantees uniqueness of rows
- ☐ Enhances SELECT query performance
- ☒ Uses disk space

Expand

Correct

This is like adding an index to books, it adds more pages.

9. Which of the following constraints limits the values accepted by an attribute?

1 / 1 point

- ☐ Unique constraint
- ☐ Domain constraint
- ☐ Null constraints
- ☒ Check constraint

Expand

Correct

This constraint enforces domain integrity by limiting values that are accepted by attributes.

10. What is the difference between system schemas and user schemas?

1 / 1 point

- ☐ Both schemas contain the same objects.
- ☐ Neither schema contains database objects.
- ☒ System schemas store configuration information and metadata.
- ☐ System schemas contain partitions and user schemas contain metadata.

Expand

Correct

System schemas store configuration information and metadata, while user schemas store the actual data.

11. What statement best describes phpMyAdmin?

1 / 1 point

- ☒ It is a graphical user interface (GUI) to interact with MySQL.
- ☐ It is an admin tool that manages users and their access permissions.
- ☐ It is a cloud-based tool used to access MySQL.
- ☐ It is a command line interface.

Expand

Correct

Correct! phpMyAdmin is a graphical user interface, or GUI, that you can use to interact with your MySQL databases.

12. Which command do you use to show the structure of a table?

0 / 1 point

- ☐ DISPLAY
- ☒ SHOW
- ☐ DESCRIBE
- ☐ REPRESENT

Expand

Incorrect

Incorrect. Review the Creating Databases and Tables in MySQL video.

13. What is the maximum size of a data file you can import with phpMyAdmin?

1 / 1 point

- ☐ 1 megabyte
- ☒ 2 megabytes
- ☐ 3 megabytes
- ☐ Unlimited

Expand

Correct

You can import up to 2 megabytes of data at a time using phpMyAdmin.

14. On which operating systems can you install PostgreSQL?

1 / 1 point

- ☐ UNIX, UNIX like, or UNIX-based systems
- ☐ You cannot install PostgreSQL locally; it must be cloud-based
- ☐ macOS only
- ☒ macOS, Microsoft Windows, UNIX

Expand

Correct

You can download and install PostgreSQL on your own servers, on a range of operating systems such as macOS, Windows, UNIX and UNIX-based or UNIX like systems.

15. How do you create views?

0 / 1 point

- ☒ Using the PostgreSQL GUI tool
- ☐ From SQL code
- ☐ From an entity relationship diagram
- ☐ Using the mySQL admin tool

Expand

Incorrect

Incorrect. Review the Views video.