

1. Data types define the type of data that can be stored in which part of a database table?

1 / 1 point

- ☒ Columns
- ☐ Index
- ☐ Schemas
- ☐ Rows

 Expand

 **Correct**

Data types define the type of data that is stored in columns.

2. Which of the following is an open source database?

1 / 1 point

- ☐ Oracle
- ☐ BigQuery
- ☒ PostgreSQL
- ☐ Db2

 Expand

 **Correct**

Correct! PostgreSQL is open source.

3. What are the three tiers of a three-tier architecture database management system (DBMS)?

1 / 1 point

- ☐ Database server, middleware, and application server
- ☐ Database storage, API, and user interface
- ☒ Database storage, application server, and user interface
- ☐ Database server, user interface, and network

 Expand

 **Correct**


Correct! Data is housed in the database storage tier, data is processed in an application tier, and the user interacts with the system through the user interface tier.

4. Which statement is true with regards to PostgreSQL?

0 / 1 point

- ☒ It is a NoSQL database management system (DBMS).
- ☐ It is object oriented.
- ☐ It is proprietary software.
- ☐ It supports inheritance and overloading.

 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 an entity.
- ☐ The movie is a column.
- ☐ The movie is an attribute.

 Expand



Correct

Correct! An entity is the subject of focus.

6. Which statement best describes the Db2 Warehouse deployment model?

0 / 1 point

- ☐ It is offered via an on-premises model.
- ☒ It is offered via a public cloud model.
- ☐ It is offered via a private cloud model.
- ☐ It is offered via a hybrid cloud model.

 Expand



Incorrect

Incorrect. Review the Db2 video.

7. When creating a foreign key, how can you define an action to take if a parent table row is updated?

1 / 1 point

- ☐ Use the ON DELETE CASCADE clause
- ☒ Use the rule clause
- ☐ Use the CREATE TABLE command
- ☐ Use the ALTER TABLE command

 Expand

 Correct

Correct! Use the rule clause to define what action to take if a parent table row is updated or deleted.

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

1 / 1 point

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

 Expand

 Correct


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

9. Which of the following is the best example illustrating data that fails the entity integrity constraint?

0 / 1 point

- ☐ Birth Date: 01/03/19782
- ☐ EmployeeID: NULL
- ☐ City: Alaska
- ☒ Primary key is duplicated

 Expand

 **Incorrect**

Incorrect. Review the Relational Model Constraints video.

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

1 / 1 point

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

 Expand

 **Correct**

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

11. Which of the following services can be used to manage MySQL in the cloud?

1 / 1 point

- ☐ MariaDB
- ☐ MySQL Workbench
- ☒ Azure
- ☐ phpMyAdmin

 Expand

 **Correct**

Correct! You can use a managed service such as IBM Cloud, Amazon RDS for MySQL, Azure Database for MySQL, or Google Cloud SQL for MySQL.

12. When creating a MySQL database using phpMyAdmin, at which point in the process do you define the length of the data in a column?

1 / 1 point

- ☐ When you are shown a summary of the structure of the new table.
- ☐ When you name the new database.
- ☐ When you add tables to the database.
- ☒ When you define the columns in the table.

 Expand

 **Correct**

When you define the columns in a table, you can specify the name, data type, and length (if relevant) for each column.

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

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

 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. Why are views useful?

1 / 1 point

- ☒ They limit access to sensitive data.
- ☐ They help identify data you want to work with.
- ☐ They make it easier to join data in tables.
- ☐ They help determine information system requirements throughout an organization.

 Expand

 Correct

Correct! Views are a useful way of limiting access to sensitive data, simplifying data retrieval, and reducing access to underlying tables.