Quiz

| Question 1: Data types define the type of data that can be stored in which part of a database table? |
|--|
| O Index |
| ○ Schemas |
| Rows |
| Columns |
| Ocrrect Data types define the type of data that is stored in columns. |
| |

1/1 point

| 2. | Question 2: Popularity of cloud databases has more than doubled in the past decade. Which cloud service model is driving this? |
|----|--|
| | Commercial databases |
| | O Platform as a Service (PaaS) |
| | O Infrastructure as a Service (IaaS) |
| | Software-as-a-Service (SaaS) |
| | Correct Software-as-a-Service model is driving the rise in popularity of cloud databases. |
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| 3. | Question 3: The DBMS on the server in a 2-tier environment includes multiple layers. Which layer is also referred to as the persistence layer? |
|----|--|
| | O Data Access layer |
| | Database Storage layer |
| | O Transmission layer |
| | O Database Engine layer |
| | ⊘ Correct |
| | The database storage or persistence layer is where the data is stored, either locally or on network storage. |

| 1. | Question 4: Which NoSQL functionality does PostgreSQL use to store non-hierarchical data? |
|----|---|
| | ○ JSON |
| | O Functions |
| | HSTORE |
| | Replication |
| | Correct It uses the functionality of NoSQL HSTORE for non-hierarchical data. |
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| Question 5: How can the Entity Relationship Diagram (ERD) model be used? |
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| The ERD model helps you to define the data in each row of a table. |
| The ERD model helps you map data types to existing columns and rows. |
| The ERD model helps you to design a database with a single table. |
| The ERD model helps you to define entities and their attributes, and map them to tables, and identify the relationships between the tables. |
| Correct The ERD model helps you to define entities and their attributes, and map them to tables, and identify the relationships between the tables. Rather than being used as a model on its own, the ER Model is used as |

tool to design relational databases.

| ŝ. | Question 6: Which of the following sources is NOT supported by the Db2 Web Console for loading data? |
|----|---|
| | O Delimited text files (local computer) |
| | Python code |
| | Cloud Object Storage (IBM) |
| | O S3 object storage (AWS) |
| | Correct The Load Data utility does not load data stored in Python code. |
| | |

| 7. | Question 7: When creating a foreign key, how can you define an action to take if a parent table row is updated? |
|----|---|
| | O Use the ON DELETE CASCADE clause |
| | O Use the ALTER TABLE command |
| | Use the rule clause |
| | O Use the CREATE TABLE command |
| | Correct Use the rule clause to define what action to take if a parent table row is updated or deleted. |
| | |

| 8. | Question 8: Which of the following is a disadvantage of using Indexes? |
|----|--|
| | O Guarantees uniqueness of rows |
| | Enhances SELECT query performance |
| | Uses disk space |
| | Reduce need to sort data |
| | Correct This is like adding an index to books, it adds more pages. |
| | |

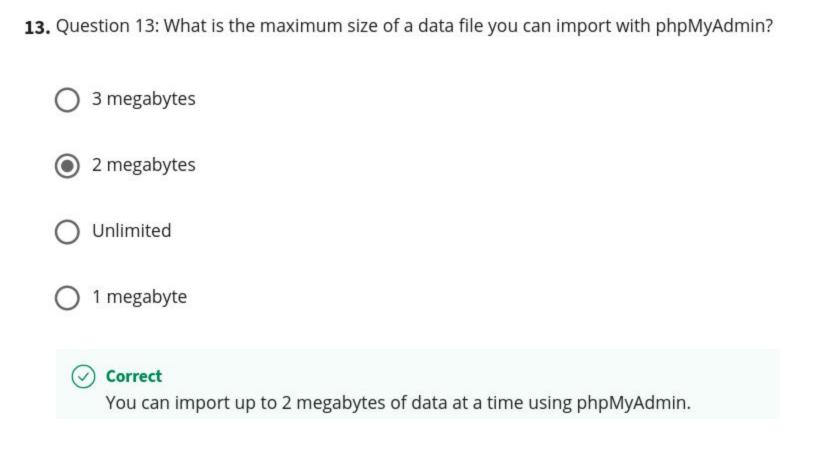
| Э. | Question 9: Which of the following constraints limits the values accepted by an attribute? |
|----|--|
| | O Null constraints |
| | O Unique constraint |
| | Check constraint |
| | O Domain constraint |
| | ✓ Correct This constraint enforces domain integrity by limiting values that are accepted by attributes. |
| | |

| System schemas contain partitions and user schemas contain metadata. |
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| System schemas store configuration information and metadata. |
| Neither schema contains database objects. |
| O Both schemas contain the same objects. |
| ⊘ Correct |
| System schemas store configuration information and metadata, while user schemas store the actual data. |
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10. Question 10: What is the difference between system schemas and user schemas?

| 11. Question 11: Which MySQL tool can you use to visually design a MySQL database? |
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| O phpMyAdmin |
| MySQL Workbench |
| O mysqladmin |
| O mysql |
| Correct MySQL Workbench is a visual database design tool that integrates SQL development, administration, and database design, creation, and maintenance. |
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| 12 | • Question 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? |
|----|---|
| | O When you add tables to the database. |
| | O When you are shown a summary of the structure of the new table. |
| | When you define the columns in the table. |
| | When you name the new database. |
| | Correct When you define the columns in a table, you can specify the name, data type, and length (if relevant) for each column. |





| 15. (| Question 15: Why would you refresh a materialized view in a PostgreSQL database before you use it? |
|--------------|---|
| (| The materialized view only stores the data in memory, so it needs to be refreshed to reflect current data. |
| (| The materialized view stores the data, so if you need to use the most current data you should refresh the view first. |
| (| You need to refresh a materialized view so you can edit the data. |
| (| Refreshing a materialized view increases performance. |
| | Correct This is one of the key differences between materialized views and regular views. You must refresh it to |

reflect the most current data.