Your grade: 80%

Your latest: **76.66%** • Your highest: **80%** • To pass you need at least 80%. We keep your highest score.

Next item →

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

    1 / 1 point

    ○ Rows

    ○ Schemas

    ○ Index

    ◉ Columns

    ✓ **Correct**
    Correct! Data types define the type of data stored in columns.

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

    1 / 1 point

    ◉ PostgreSQL

    ○ Oracle

    ○ BigQuery

    ○ Db2

    ✓ **Correct**
    Correct! PostgreSQL is an open source database.

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

    1 / 1 point

    ○ The client typically directly accesses it.

    ◉ It contains an engine that compiles queries, retrieves data, and returns a result set.

    ○ It encapsulates the application and business logic.

    ○ It is the place for storing the data.

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

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

    0 / 1 point

    ○ JSON

    ○ EDB

    ◉ Objects

    ○ HSTORE

    ⊗ **Incorrect**
    Incorrect. Review the PostgreSQL video.

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

    1 / 1 point

    ◉ The movie is an entity.

    ○ The movie is a column.

    ○ The movie is an attribute.

    ○ The movie is a primary key.

6. Which statement best describes the Db2 Warehouse deployment model?   0 / 1 point

   ○ A public cloud model offers it.

   ○ The on-premises model offers it.

   ○ A hybrid cloud model offers it.

   ⦿ A private cloud model offers it.

   ⊗ **Incorrect**

   Incorrect. Review the Db2 video.

7. What is the function of a foreign key?   1 / 1 point

   ○ It is a unique value that identifies a table

   ⦿ It defines the relationship between tables

   ○ It is used to access a row of data in a table

   ○ It is a unique value in a table

   ✓ **Correct**

   Correct! A foreign key is a column in a table that contains the same information as the primary key in another table.

8. Which of the following is an advantage of indexing?   1 / 1 point

   ⦿ Indexing quickly locates rows and reduces the need to sort the data

   ○ Indexing works well with unstructured data

   ○ Indexing quickly sorts data in a table

   ○ Indexing increases the performance of INSERT and UPDATE queries

   ✓ **Correct**

   Correct! Indexing reduces the need to sort data by storing pointers to each row in the table so that when you request a particular row, the SQL processor can use the index to quickly locate the row.

9. Which constraint specifies the permissible values for a given attribute?   1 / 1 point

   ○ Entity integrity constraint

   ○ Unique constraint

   ⦿ Domain constraint

   ○ Semantic integrity constraint

   ✓ **Correct**

   Correct! A domain constraint defines the allowable values for a specific attribute.

10. In which situation is it most appropriate to partition a database?   1 / 1 point

    ○ When there are many tables in an instance

    ○ When an instance requires both user schemas and system schemas

    ○ When it's necessary to store user access permissions in a table

    ⦿ For optimizing queries for data warehousing with large volumes of data

    ✓ **Correct**

Correct! Partitioning is often used with very large data sets.

11. Which services can you use to manage MySQL in the cloud? **0 / 1 point**

○ MariaDB

◉ MySQL Workbench

○ phpMyAdmin

○ Azure

⊗ **Incorrect**
Incorrect. Review the Getting Started with MySQL video.

12. Which of the following options enables you to create a MySQL database? [Select two] **0.5 / 1 point**

☐ Use the CREATE TABLE command from a command line interface

☑ Use the MySQL GUI tool

⊗ **This should not be selected**
Incorrect. Review the Creating Databases and Tables in MySQL video.

☐ Use an API call

☑ Use the CREATE DATABASE command from a command line interface

✓ **Correct**
Correct! As with many RDBMSs, you can create a database with the CREATE DATABASE command using a command line interface.

13. What does the "-u root" option in this command do? **1 / 1 point**

mysqldump -u root employees > employeebackup.sql

◉ Specifies the username "root" when connecting to the server

○ Uses the root directory to back up the database on the server

○ Uses the root directory to find the database file that is to be backed up

○ Lists users who have access to the root directory

✓ **Correct**
Correct! The -u option allows you to specify a username, in this case, "root."

14. What open-source graphical user interface (GUI) can you utilize to connect to a Postgres database? **1 / 1 point**

○ Navicat

○ PostgreSQL

◉ pgAdmin

○ phpAdmin

✓ **Correct**
Correct! pgAdmin is both a GUI and an open source tool that connects to a Postgres database.

15. Why would you refresh a materialized view in a PostgreSQL database before you use it? **1 / 1 point**

◉ The materialized view stores the data, so if you need to use the most current data, you should refresh the view first

○ The materialized view only stores the data in memory, so it needs to be refreshed to reflect current data

○ You need to refresh a materialized view so you can edit the data

Refreshing a materialized view increases performance

✓ **Correct**

Correct! This is one of the key differences between materialized views and regular views. You must refresh it to reflect the most current data.