

# Evaluation quiz correction

**Evaluation Quiz:** Evaluation #6

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**Date:** 2022-09-27

**Status:** Done

**Duration:** 22 minutes

**Score:** 35.0%

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**# "I don't know":** 2

**# Success:** 6

**# Fail:** 12

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## Responses

*0. Which command grants or removes other users' privileges in MySQL?*

**Score:** 1.0

- ☒ **GRANT OPTION**
- ☐ SUDO
- ☐ CHANGE OWNER
- ☐ SWITCH
- ☐ I don't know

*1. What is the size of `*p` in this code?*

**Score:** 0.0

```
int **p;
```

- ☐ 4 bytes

- ☐ 8 bytes
- ☐ 16 bytes
- ☒ 32 bytes
- ☐ I don't know

## 2. What do these lines print?

Score: 1.0

```
>>> a = { 'id': 89, 'name': "John", 'projects': [1, 2, 3, 4], 'friends': [ { 'id': 82, 'name': "Bob" }, { 'id': 83, 'name': "Amy" } ] }
>>> a.get('friends')[-1].get("name")
```

- ☐ 89
- ☐ [{'id':82, 'name':"Bob"}, {'id':83, 'name': "Amy"}]
- ☒ 'Amy'
- ☐ 'Bob'
- ☐ Nothing
- ☐ I don't know

## 3. What line(s) would you replace **# REPLACE THIS LINE** with in the following code?

Score: 0.5

```
#!/usr/bin/env python3
"""
Script that lists all State objects from a database
"""
if __name__ == "__main__":
    # Import necessary modules
    from sys import argv
    from sqlalchemy import create_engine
    from sqlalchemy.orm import sessionmaker
```

```

from model_state import State

# Set variables to input arguments
username = argv[1]
password = argv[2]
db_name = argv[3]

# Start engine
engine = create_engine('mysql+mysqldb://{username}:{password}@localhost/{db_name}'.format(username=username, password=password, db_name=db_name))

# Create a configured class Session
Session = sessionmaker(bind=engine)

# Create a Session instance
my_session = Session()

# my_session work
# REPLACE THIS LINE
for object in objects:
    print("{}: {}".format(object.id, object.name))

# Close session
my_session.close()

```

- ☐ **objects = my\_session.query(State).order\_by(State.id).all()**
- ☐ my\_session.execute("SELECT states.id, states.name FROM states ORDER BY id ASC")  
objects = my\_session.fetchall()
- ☐ objects = my\_session.find(State).order\_by(State.id).all()
- ☒ I don't know

*4. You will not be able to reconnect to your server via SSH - and will not be able to recover it - if you ever deny port \_\_\_\_\_*

Score: 0.0

- ☒ 80
- ☐ 22
- ☐ 440
- ☐ 12
- ☐ I don't know

*5. An object-relational mapper (ORM) . . .*

Score: 0.0

Please select all valid answers

- ☒ is a code library that automates the transfer of data stored in relational databases tables into objects
- ☒ provides a high-level abstraction upon a relational database
- ☐ allows a developer to write Python code instead of SQL
- ☐ I don't know

*6. In the context of web infrastrucutre, what is SPOF?*

Score: 0.0

- ☐ "Single Point of Failure" - A part of a system that will stop the entire system if it fails
- ☒ "Single Point of Failure" - A part of the system designed to fail if other parameters are met
- ☐ "Single Point of Freedom" - When your server is set up to only allow requests from a single specified IP address
- ☐ "Spare Parts Order Form" - A form used to request backup hardware
- ☐ I don't know

*7. Based on this code, what should all the test cases be?*

Score: 0.5

```
def uniq(list):  
    """ Returns unique values of a list """  
    u_list = []  
    for item in list:  
        if item not in u_list:  
            u_list.append(item)  
    return u_list
```

Select all valid answers

- ☐ empty list
- ☐ list with one element (any type)
- ☐ list with 2 different elements (same type)
- ☐ list with the same element twice (same type)
- ☐ list with more than 2 times the same element (same type)
- ☐ list with multiple types (integer, string, etc...)
- ☐ not a list argument (ex: passing a dictionary to the method)
- ☒ I don't know

*8. Which MySQL command enables a user to delete tables or databases?*

Score: 1.0

- ☒ DROP
- ☐ DELETE
- ☐ REMOVE
- ☐ KILL
- ☐ I don't know

9. A firewall can monitor \_\_\_\_\_ traffic.

Score: 0.0

Please select all valid answers.

- ☒ Incoming
- ☐ Outgoing
- ☐ SQL Injections
- ☐ CPU Usage
- ☐ I don't know

10. Given this code:

Score: 0.0

```
struct point {  
    int x;  
    int y;  
};  
struct point my_point = { 3, 7 };  
struct point *p = &my_point;
```

To set the member **y** of my variable **my\_point** to **98**, I can do (select all valid answers):

- ☐ `my_point.y = 98;`
- ☐ `my_point->y = 98;`
- ☐ `p.y = 98;`
- ☒ `(*p).y = 98;`
- ☐ `p->y = 98;`
- ☐ I don't know

11. In this following code, what is `__password`?

Score: 0.0

```
class User:
```

```
id = 89
name = "no name"
__password = None

def __init__(self, new_name=None):
    self.is_new = True
    if new_name is not None:
        self.name = new_name
```

- ☐ A private class attribute
- ☐ A private instance attribute
- ☐ A protected instance attribute
- ☐ A protected class attribute
- ☐ A public instance attribute
- ☒ A public class attribute
- ☐ I don't know

**12. Which of the following statements about what is causing the error is true?**  
(select all valid answers)

Score: 0.0

The following code gives this incorrect output

```
carrie@ubuntu:/debugging$ cat main.c
#include <stdio.h>

/**
 * main - debugging example
 * Return: 0
 */
int main(void)
{
    int i;
```

[illegible]

Which of the following statements about what is causing the error is true?

- ☒ `j` is always equal to `i` so the loop will never end
- ☐ `j` never increments so it will always be less than 10
- ☐ `j` never increments so it is always going to print 0
- ☐ I don't know

### 13. What is in-order traversal?

**Score: 0.0**



- ☐ the left subtree is visited first, then the root and later the right sub-tree
- ☐ the root node is visited first, then the left subtree and finally the right subtree
- ☒ left subtree is visited first, then the right subtree and finally the root node
- ☐ I don't know

#### 14. Which command should I use to display the exit code of the previous command?

Score: 0.0

- ☐ echo ?
- ☐ echo \$EXITCODE
- ☒ echo \$CODE
- ☐ echo \$?
- ☐ I don't know

#### 15. What is a database?

Score: 0.0

- ☐ a collection of text files that are stored so that it can be easily accessed, updated and managed by the local application
- ☒ a collection of information that is stored on a physical server and organized so that it can be easily accessed, updated and managed
- ☐ a collection of information that is stored and organized so that it can be easily accessed, updated and managed
- ☐ I don't know

#### 16. What is a server?

Score: 1.0

- ☒ A server is a device, a virtual device or computer program or providing functionality for other programs or devices, called "clients".
- ☐ A server is a software that serves web pages.
- ☐ A server is returning information to other computers when asked.

- ☐ I don't know

### 17. What is TCP/IP?

Score: 1.0

- ☒ **Transmission Control Protocol/Internet Protocol, is a suite of communications protocols used to interconnect network devices on the Internet or any private network.**
- ☐ Transmission Control Protocol/Internet Protocol, is a suite of communications protocols used to interconnect network devices on the Internet.
- ☐ Transmission Control Protocol/Internet Protocol, is a suite of communications protocols used to interconnect network devices on private network.
- ☐ I don't know

### 18. If we were to print the following tree using pre-order traversal, what would you expect the output to be?

Score: 0.0

```

      .------(098)-----
     /
    /
   /
  /
 /
/
(010)
     \
    \
   \
  \
 /
/
(054)
     \
    \
   \
  \
 /
/
(045)
     \
    \
   \
  \
 /
/
(092)
     \
    \
   \
  \
 /
/
(128)
     \
    \
   \
  \
 /
/
(065)

```

- ☐ 98, 12, 10, 54, 402, 45, 128, 92, 65
- ☒ **98, 12, 402, 10, 54, 45, 128, 92, 65**
- ☐ 10, 12, 54, 98, 45, 402, 92, 128, 65
- ☐ 10, 54, 12, 45, 92, 65, 128, 402, 98
- ☐ I don't know

### 19. What do these lines print?

Score: 1.0

```

class Base():
    """ My base class """

```

```
__nb_instances = 0

def __init__(self):
    Base.__nb_instances += 1
    self.id = Base.__nb_instances

class User(Base):
    """ My User class """

    def __init__(self):
        super().__init__()
        self.id += 99

u = User()
print(u.id)
```

- ☐ 1
- ☐ 99
- ☒ 100
- ☐ I don't know