Chapter 9 Quiz

Due Nov 7 at 11:59pm **Allowed Attempts** 2

Points 100

Questions 25

Time Limit None

Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	12 minutes	96 out of 100
LATEST	Attempt 2	12 minutes	96 out of 100
	Attempt 1	25 minutes	92 out of 100

(!) Correct answers will be available on Dec 14 at 12am.

Score for this attempt: 96 out of 100

Submitted Nov 7 at 11:49am This attempt took 12 minutes.

Question 1

4 / 4 pts

Assume that databaseConnection is a valid connection to the Faculty database in a Connector/Python program. What is the output of the code below?

```
dbCursor = databaseConnection.cursor()
dbQuery = ('UPDATE Teacher SET FirstName = "Mary" WHERE TeacherID=4
5631')
databaseConnection.commit()
dbCursor.close()
dbConnection.close()
```

The Teacher table is updated with the new values.

No result because no database connection was created.
No change on the Teacher table because the dbQuery has not been executed.
There would be an error.

Which of the following is an example of database programming? Creating tables and columns using SQL in a database administration tool Creating a static web page Creating a database using a database server administration tool Creating a web application using Java and SQL

Question 3	4 / 4 pts
In a Connector/Python program, the method prevents which is a type of attack that causes a program to execute m	

SQL st	tatements.
	cursor.commit(), brute-force
	cursor.close(), phishing
•	cursor.execute(), SQL injection
	cursor.rollback(), privilege escalation

Which of the following database programming techniques is an extension of the SQL language that is typically used for database applications? Embedded SQL API Functional Programming Procedural SQL

Question 5 4 / 4 pts

Why would mysql.connector.connect() throw an exception in a

(0)

Connector/Python program? The function was called without a CREATE TABLE statement.

The function was called with a username that does not have access to the database.

- The function was called outside a try-except statement.
- The function was called without a matching connection.close() call.

Question 6 4 / 4 pts

Refer to the stored procedure. What is the correct call syntax to get the number of classes taught by Maggie Wilson with ID - 45631 through a stored procedure call from the command line?

CREATE PROCEDURE TeacherClassLoad(IN teachID INT, OUT numberOfClass
es INT)
 SELECT COUNT(*)
 INTO numberOfClasses
 FROM Class
 WHERE TeacherID = teachID;

- CALL TeacherClassLoad(45631, @numberofClasses)
- CALL TeacherClassLoad(45631, numberofClasses)
- CALL TeacherClassLoad("45631", @numberofClasses)
- CALL TeacherClassLoad("45631", "numberofClasses")

In database APIs, ____ a query is a term used when compiling happens before executing the query.

| compiling |
| storing |
| preparing |
| managing |

Which statement should replace XXX? CREATE FUNCTION GetTeacherID(teacherLastName VARCHAR(20)) RETURNS INT XXX BEGIN DECLARE t_id INT; SELECT TeacherID INTO t_id FROM Teacher WHERE LastName = teacherLastName; END; DETERMINISTIC

0	NO SQL
0	SQL

Database queries are commonly implemented using a declarative programming language because of which two main reasons? Ability to reuse classes and easier to learn Less storage requirements and can be easily modified Requires no translator and directly understood by the computer Easier programming and faster execution

Question 10	4 / 4 pts
In order to run a program with Embedded SQL, the compiler _	
ignores all the non-SQL syntax, runs the code and exits the prografter running	am
•	

translates the SQL code to the host language first, and then to an executable program	
converts all statements to SQL and compiles the result to an intermediate language	
compiles the SQL code to machine language and then to an execut program	able

Question 11	4 / 4 pts
API defines for applications written in a procedural proglanguage and for applications in object-oriented langu	•
o sql calls, objects	
application calls, entities	
 function calls, models 	
procedure calls, classes	

Question 12	4 / 4 pts

A developer wants to create an application using the PHP language. Which of the following APIs can the developer use to interact with the database?	
PDO	
O JDBC	
O SQL/CLI	
O ADO.NET	

Question 13	4 / 4 pts
Programming languages fall into either or	paradigms.
declarative, object-oriented	
imperative, declarative	
imperative, object-oriented	
O declarative, functional	

Question 14	4 / 4 pts

A/An result set.	will retrieve rows from a query that has multiple rows in the
O fetch	
Shar	ed variable
inde:	X
• curs	or

Question 15	4 / 4 pts
allows a programmer to create an SQL query with a P statement at run-time.	REPARE
Static SQL	
Complex SQL	
Embedded SQL	
Dynamic SQL	

Question 16	4 / 4 pts

Assume the lastName value is obtained from a submitted form. Which values should replace XXX and YYY in the PHP code?

<pre>\$sql = "INSERT INTO Teacher (LastName) " . "VALUES (XXX)";</pre>
<pre>\$stmt = \$pdo->prepare(\$sql); \$stmt->bindValue(YYY, \$_POST["lastName"]); \$stmt->execute();</pre>
:lastName , "lastName"
○ :lastName, @lastName
○ :lastName, :lastName
\$_lastName, \$_lastName

Question 17	4 / 4 pts
In a PHP application using PDO, a consists of the hame of the database that will be used to establish a conndatabase.	•
O PDO Exception	
Data Source Name	
O PDO Object	

O Data Connection

Incorrect

Question 18	0 / 4 pts
An application may use a API, which in turn uses a access unsupported data sources.	API to
oprimary, secondary	
programming, database	
o driver, driver manager	
O database, table	

Which of the following required keywords specifies if the trigger will affect all rows of the table? ON TableName INSERT | UPDATE | DELETE FOR EACH ROW BEFORE | AFTER

Question 20	4 / 4 pts
Which of the following Connector/Python cursor properties re number of items affected by a query?	turns the
cursor.rows	
cursor.count	
cursor.rowcount	
o cursor.column_names	

Question 21	4 / 4 pts
Which of the following database programming techniques is used with object-oriented programming languages?	commonly
Procedural SQL	
API	
Functional Programming	
Embedded SQL	

Question 22 4 / 4 pts

Which statements should replace XXX and YYY to execute the SELECT statement when the teacherID value is valid?

```
CREATE PROCEDURE TeacherClassLoad(IN teachID INT)
BEGIN
   DECLARE numberOfClasses INT;
   XXX
        SELECT COUNT(*)
        INTO numberOfClasses
        FROM Class
        WHERE TeacherID = teachID;
   YYY;
END;
```

- WHILE teachID IS NOT NULL, END WHILE
- WHILE teachID IS NOT NULL DO, END WHILE
- IF teachID IS NOT NULL THEN, END IF
- IF teachID IS NOT NULL, END IF

Question 23 4 / 4 pts

The _____ keyword helps the compiler identify embedded SQL statements in a program.

- EMBED SQL
- EXEC SQL

O PROCESS SQL	
O RUN SQL	

Question 24 4 / 4 pts

Which statements should replace XXX and YYY in the Connector/Python program?

```
dbCursor = databaseConnection.cursor()
dbQuery = ('SELECT LastName, FirstName FROM Teacher'
    'WHERE TeacherId = %s')
teacherData = (12346)
dbCursor.execute(dbQuery, teacherData)

for row in dbCursor.fetchall():
    print('FirstName', XXX, 'Last Name', YYY)

dbCursor.close()

    row[0], row[1]

    row[1], row[0]

    'FirstName', 'LastName'
```

Question 25 4 / 4 pts

 pro	is an ISO standard that extends procedural SQL for use in stored ocedures.
	SQL/PSM
	O SQL/CI
	O SQL/DS
	O SQL/SAS

Quiz Score: 96 out of 100