WORKSHEET
INTERFACE PYTHON WITH MYSQL

1	Identify the name of connector to establish bridge between Python and MySQL
	    a. mysql.connection
	    b. connector
	    c. mysql.connect
	    d. mysql.connector

Ans	d. mysql.connector

2	In the following connection string: Identify the elements:
	connect(__<<1>>___ = 127.0.0.1, ___<<2>>___ =' root', ____<<3>>___ = 'admin')
	    a. <<1>> = User, <<2>> = password, <<3> = host
	    b. <<1>> = host, <<2>> = user, <<3> = password
	    c. <<1>> = host, <<2>> = password, <<3> = user
	    d. **<<1>> = IP, <<2>> = user, <<3> = password**

Ans	b. <<1>> = host, <<2>> = user, <<3>> = password **connect(host= 127.0.0.1, user= 'root', password= 'admin')**

3	Which function of connection is used to check whether connection to mysql is successfully done or not?
	import mysql.connector as msq
	con = msq.connect(#Connection String) # Assuming all parameter required as passed
	if _____:
	    print("Connected!")
	else:
	    print(" Error! Not Connected")
	
	    a. con.connected()
	    b. con.isconnected()
	    c. con.is_connected()
	    d. con.is_connect()

Ans	c. con.is_connected()

4	Which of the following component act as a container to hold all the data returned from the query and from there we can fetch data one at a time?
	    a. ResultSet
	    b. Cursor
	    c. Container
	    d. Table

Ans	b. Cursor

5	Identify the correct statement to create cursor:
	import mysql.connector as msq
	con = msq.connect(#Connection String) # Assuming all parameter required as passed
	mycursor = _____
	
	    a. con.cursor()
	    b. con.create_cursor()
	    c. con.open_cursor()
	    d. con.get_cursor()

Ans	a. con.cursor()
6	What is the difference in fetchall() and fetchone()?
Ans	fetchall() function is used to fetch all the records from the cursor in the form of tuple. fetchone() is used to fetch one record at a time. Subsequent fetchone() will fetch next records. If no more records to fetch it return None.

7	Which attribute of of cursor is used to get number of records stored in cursor (Assuming cursor name is mycursor)?
	
	    a. mycursor.count
	    b. mycursor.row_count
	    c. mycursor.records
	    d. mycursor.rowcount

Ans	d. mycursor.rowcount

8	Which of the Symbols are used for passing parameterized query for execution to cursor?
	
	    a. %
	    b. {}
	    c. $
	    d. Both a and b

Ans	d. Both a and b

9	Which function is used to fetch n number of records from cursor?
	    a. fetch()
	    b. fetchone()
	    c. fetchmany()
	    d. fetchall()

Ans	c. fetchmany()

10	Which cursor function is used to send query to connection?
	    a. query()
	    b. execute()
	    c. run()
	    d. send()

Ans	b. execute()
11	Consider the information stored in the table : EMP

EMPNO	ENAME	DEPT	SALARY
1	ALEX	MUSIC	60000
2	PETER	ART	67000
3	JOHNY	WE	55000
4	RAMBO	P&HE	48000

	Following python code is written to access the records of table: EMP, What will be the output of following code:
	
	``python
	# Assume All basic setup related to connection and cursor creation is already done
	query="select * from emp"
	mycursor.execute(query)
	results = mycursor.fetchone()
	results = mycursor.fetchone()
	results = mycursor.fetchone()
	d = int(results[3])
	print(d*3)
	``
	
	    a. P&HEP&HEP&HE
	    b. 144000
	    c. WEWEWE
	    d. 165000

Ans	d. 165000
12	Consider the following Python code is written to access the record of CODE passed to function:

	Complete the missing statements:
	
	def Search(eno):
	    #Assume basic setup import, connection and cursor is created
	    query="select * from emp where empno=_____".format(eno)
	    mycursor.execute(query)
	    results = mycursor._____
	    print(results)
	
	   a. {} and fetchone()
	   b. fetchone() and {}
	   c. %s and fetchone()
	   d. %eno and fetchone()

Ans	a. {} and fetchone()

13	Consider the following Python code for updating the records:
	def Update(eno):
	    #Assume basic setup import, connection(con) and cursor(mycursor) is created
	    query="update emp set salary=90000 where empno=" + str(eno)
	    mycursor.execute(query)
	
	Code is running but the record in actual database is not updating, what could be the possible reason?
	   a. save() function is missing
	   b. con.save() function is missing
	   c. con.commit() function is missing
	   d. commit() function is missing

Ans	c. con.commit() function is missing

14	Consider the following python code to display all records from table: EMP
	def showAll():
	#Assume basic setup import, connection(con) and cursor(mycursor) is created
	    query="select * from emp"
	    mycursor.execute(query)
	    results = mycursor.fetchall()
	    for results in row:
	    print(results)
	But query is giving error, What could be the possible reason?
	   a. fetchmany() should be used in place of fetchall()
	   b. fetchone() should be used in place of fetchone()
	   c. print(row) should be used in place of print(results)
	   d. loop and print function is wrong, for row in results: and print(row) should be used

Ans	d. loop and print function is wrong, for row in results: and print(row) should be used
15	Guess the output

```
import mysql.connector as mys
mycon = mys.connect(host='localhost',user='root',passwd='admin',database='company')
mycursor = mycon.cursor()
mycursor.execute("select * from emp")
mydata = mycursor.fetchone()
nrec = mycursor.rowcount
print("Total records fetched so far are",nrec)
mydata = mycursor.fetchone()
nrec = mycursor.rowcount
print("Total records fetched so far are",nrec)
mydata = mycursor.fetchmany(2)
nrec = mycursor.rowcount
print("Total records fetched so far are",nrec)
```

a. **Total records fetched so far are 1**
   Total records fetched so far are 1
   Total records fetched so far are 2
b. **Total records fetched so far are 1**
   Total records fetched so far are 2
   Total records fetched so far are 4
c. **Total records fetched so far are 1**
   Total records fetched so far are 2
   Total records fetched so far are 2
d. **Total records fetched so far are 1**
   Total records fetched so far are 1
   Total records fetched so far are 1

Ans	b. **Total records fetched so far are 1** **Total records fetched so far are 2** **Total records fetched so far are 4**