

CHAPTERWISE QUESTION

Time: 3hrs

Computer science Class XII
Interface Python with MY SQL

Marks : 70

SECTION A: Each carries 1mark

25marks

Q.1. To open a connector to Mysql database, which statement is used to connect with pymysql?

- (a) connector ()
- (b) Connect ()
- (c) Password ()
- (d) username()

Q. 2. Which of the followings is used for counting the number of rows in a database?

- (a) row
- (b) rowcount
- (c) count
- (d) row_count

Q.3. Name the method which is used for displaying only one resultset.

- (a) fetchmany
- (b) fetchno
- (c) fetchall
- (d) fetchone

Q.4. To execute all the rows from the result set, which method is used?

- (a) fetchmany
- (b) fetchno
- (c) fetchall
- (d) fetchone

Q.5. Pick the correct username used for logging in database.

- (a) root
- (b) local
- (c) localhost
- (d) none of these

Q.6. Name the host name used for signing in the database.

- (a) localhost
- (b) localpost
- (c) local
- (d) connect

Q.7. The command used for modifying the records is:

- (a) Update
- (b) Modify
- (c) Edit
- (d) Alter

Q.8. Which method is used for cleaning up the environment?

- (a) commit()
- (b) end()
- (c) close()
- (d) clean()

Q.9. A _____ is a special control structure that facilitates the row-by-row processing of records in the result set.

- (a) list
- (b) cursor
- (c) recordset
- (d) database cursor

Q.10. A _____ is a collection of organized information that can be easily used, managed, updated, and they are classified according to their organizational approach.

- (a) table
- (b) flat file
- (c) recordset
- (d) database

11. What do you mean by Database connectivity?

12. What is Result set?

13. Name of connector/driver used to establish bridge between Python and MySQL?

14. In the following connection string: Identify the elements : (assume 'admin' is password)
connect(__<<1>> = "localhost", __<<2>> = " root", <<3>>="admin")

15. Which function of connection is used to check whether connection to mysql is successfully done or not?

16. Which of the component/object which act as a container to hold all the data returned from the query and from there we can fetch data one at a time?

17. Which command of Python is used to install mysql.connector driver in python IDLE?

18. Which command is used to add database connection package in the Python program?

19. 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()

20. Which function is used to clean connection environment and close connection?

21 .Which of the following is not a legal method for fetching records from database.

- a) fetchone() b) fetchtwo() c) fetchall() d)fetchmany()

22 .To fetch one record from resultset you may use<curor>..... method.

- a) fetch() b) fetchone() c) fetchtuple d) none of these.

- 23 .To reflect the changes made in the database permanently you need to run.....
 a)done() b)reflect() c)commit() d)final
- 24 .To run an sql query from within python you may use cursor.----- method.
 a)query() b)execute() c)commit() d)final()
25. A databasecontrols the connection to an actual database , established in program.
 a)database object b)connection object c)fetch object d)query object

SECTION B. Each Carries 2 marks 2 x 2=4

26.The following table represents information on sales representatives of ABC company with the following data.

Sales man name
 Code
 Address
 commission
 salary.

Write Python code to create the above table.

27.Write Python mysql connectivity program to retrieve all the data from a table student.

SECTION C. Each carries 3 marks 3 x 7 =21

28.Write a python code to delete all the records from employee table whose age >60 and the table has the following fields. Empid, empname, deptid, age, payscale

29. 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

A python code is written to access the records of table: EMP, What will be the output of following code:

```
# 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)
```

30. Consider the following Python code is written to access the details of employee, whose employee number is passed to function:

Complete the missing statements:

```
def Search(eno):
import mysql.connector
mydb=mysql.connector.connect(host="localhost",user="root",passwd="system",database="DB")
```

```

mycursor=mydb.cursor()
query="select * from emp where empno= ____
".format(eno)
mycursor.execute(query)
results = mycursor.
print(results)

```

31. Consider the following python code for updating the records.

```

import mysql.connector
mydb=mysql.connector.connect(host="localhost",user="root",passwd="
system",database="student")
mycursor=mydb.cursor()
mycursor.execute("UPDATE STUDENT SET MARKS=95 WHERE MARKS=50")
print(mycursor.rowcount,"RECORD UPDATED")

```

Code is running but the record in actual database is not updating, what could be the possible reason?

- 32 . Which function of connection is used to check whether connection to mysql is successfully done or not?

```

import mysql.connector as msq

```

```

passed
if _____:
print("Connected!")
else:
print(" Error! Not Connected")

```

33. What is the difference in fetchall() and fetchone()?

34. Which record will get inserted in the table by the following code:

```

Import mysql.connector
mydb=mysql.connector.connect(host="localhost",user="root",passwd="s
ystem",database="db")
mycursor=mydb.cursor()
a=1011
b="Euphoria"
c=599.00
mycursor.execute("INSERT INTO BOOKS(bookid,bname,price) VALUES
({},'{}',{})" .format(a,b,c))
mydb.commit()

```

SECTION E. Each carries 5 marks

3 x 5 =15

35. Write a python connectivity program to retrieve data, one record at a time from EMP table for employees with id<10.
36. Write python connectivity program to delete the employee record whose name is read from the keyboard at execution time.
37. SD School is managing the student data in student table in school database. Write a python code that connects to database school and display the record of students and total number of students.

38. XYZ & Company Pvt. Ltd. Needs to store, retrieve and delete the records of its employees, Mr. Sukesh, an employee of the company, is trying to develop an interface that provides front-end through Python and is using Back-End server on MySQL. The operations on Emp table of Employee database involves reading, searching, updating etc. He has written the following code. In this code some statements are missing. Help him to identify the most appropriate statement to do the mentioned operations.

```
import _____ as con // Statement 1
mycon=con.connect(host='Statement 2',
user='root',passwd='password',database='Employee')
_____ // Statement 3 To create the cursor
Statement 4 // To run the query to select the list of employees getting salary > 40000.
d=cur.fetchall( )
for rec in d:
print(rec)
Statement 5 // To print the total no. of records fetched.
mycon.close()
```

- i. Identify the correct answer for Statement 1 :-
- ii. Find the correct value of host in place of Statement 2:-
- iii. Identify the correct statement to create a cursor for Statement 3.
- iv. Identify the appropriate command to write for Statement 4.
- v. Identify the suitable statement to write for Statement 5.