CBSE 2023 COMPARTMENT

32 (A) (ii) The table **Bookshop** in MySQL contains the following attributes :

B_code – Integer

B_name – String

Qty – Integer

Price – Integer

Note the following to establish connectivity between Python and MySQL on a 'localhost' :

- Username is 'shop'
- Password is 'Book'
- The table exists in a MySQL database named **Bstore**.

The code given below updates the records from the table **Bookshop** in MySQL. *3*

Statement 1 – to form the cursor object.

Statement 2 – to execute the query that updates the Qty to 20 of the records whose B_code is 105 in the table.

Statement 3 – to make the changes permanent in the database.

```
import mysql.connector as mysql
def update_book():

    mydb=mysql.connect(host="localhost",
    user="shop",passwd="Book",database="Bstore")
    mycursor=__________                    # Statement 1
    qry= "update Bookshop set Qty=20 where
    B_code=105"
    _____________________                  # Statement 2
    _____________________                  # Statement 3
```

OR

32 (B) (ii) The table **Bookshop** in MySQL contains the following attributes :

B_code – Integer

B_name – String

Qty – Integer

Price – Integer

Note the following to establish connectivity between Python and MySQL on a 'localhost' :

- Username is 'shop'
- Password is 'Book'
- The table exists in a MySQL database named **Bstore**.

The code given below reads the records from the table **Bookshop** and displays all the records : *3*

Statement 1 – to form the cursor object.

Statement 2 – to write the query to display all the records from the table.

Statement 3 – to read the complete result of the query into the object named **B_Details**, from the table **Bookshop** in the database.

```
import mysql.connector as mysql
def Display_book():
    mydb=mysql.connect(host="localhost",
    user="shop",passwd="Book",database="Bstore")
    mycursor=_____              # Statement 1
    mycursor.execute("_____") # Statement 2
    B_Details=_____             # Statement 3
for i in B_Details:
    print(i)
```

32 (b) The code given below deletes the record from the table employee which contains the following record structure :

`E_code` - String

`E_name` - String

`Sal` - Integer

`City` - String

Note the following to establish connectivity between Python and MySQL :

- Username is `root`
- Password is `root`
- The table exists in a MySQL database named `emp`.
- The details `(E_code,E_name,Sal,City)` are the attributes of the table.

Write the following statements to complete the code :

Statement 1 – to import the desired library.

Statement 2 – to execute the command that deletes the record with `E_code` as 'E101'.

Statement 3 – to delete the record permanently from the database.

```
import __________ as mysql      # Statement 1
def delete( ) :
    mydb=mysql.connect(host="localhost",user="root",
    passwd="root",database="emp")

    mycursor=mydb.cursor( )
    __________________ # Statement 2
    __________________ # Statement 3
    print ("Record deleted")
```

3

OR

(b) The code given below reads the following records from the table `employee` and displays only those records who have employees coming from city 'Delhi':

`E_code` - String

`E_name` - String

`Sal` - Integer

`City` - String

Note the following to establish connectivity between Python and MySQL :

- Username is `root`
- Password is `root`
- The table exists in a MySQL database named `emp`.
- The details `(E_code,E_name,Sal,City)` are the attributes of the table.

Write the following statements to complete the code :

Statement 1 – to import the desired library.

Statement 2 – to execute the query that fetches records of the employees coming from city 'Delhi'.

Statement 3 – to read the complete data of the query (rows whose city is Delhi) into the object named `details`, from the table `employee` in the database. **3**

```
import _____ as mysql          # Statement 1
def display():
    mydb=mysql.connect(host="localhost",user="root",
    passwd="root",database="emp")
    mycursor=mydb.cursor()
    _____                      # Statement 2
    details = _____            # Statement 3
    for i in details:
          print (i)
```

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4. Consider the following table EMPLOYEE in a Database COMPANY :

Table : EMPLOYEE

E_ID	NAME	DEPT
H1001	Avneet	AC
A1002	Rakesh	HR
A1003	Amina	AC
H1002	Simon	HR
A1004	Pratik	AC

Assume that the required library for establishing the connection between Python and MySQL is already imported in the given Python code.

Also assume that DB is the name of the database connection for the given table EMPLOYEE stored in the database COMPANY.

Predict the output of the following Python code : *2*

```
CUR=DB.cursor()
CUR.execute("USE COMPANY")
CUR.execute("SELECT * FROM EMPLOYEE WHERE DEPT = 'AC' ")
for i in range(2) :
    R=CUR.fetchone()
    print(R[0], R[1], sep ="#")
```

4. Consider the following SQL table MEMBER in a SQL Database CLUB : **2**

Table : **MEMBER**

M_ID	**NAME**	**ACTIVITY**
M1001	Amina	GYM
M1002	Pratik	GYM
M1003	Simon	SWIMMING
M1004	Rakesh	GYM
M1005	Avneet	SWIMMING

Assume that the required library for establishing the connection between Python and MYSQL is already imported in the given Python code. Also assume that DB is the name of the database connection for table MEMBER stored in the database CLUB.

Predict the output of the following code :

```
MYCUR = DB.cursor()
MYCUR.execute ("USE CLUB")
MYCUR.execute ("SELECT * FROM MEMBER WHERE ACTIVITY= 'GYM'  ")
R=MYCUR.fetchone()
for i in range (2) :
    R=MYCUR.fetchone()
    print (R[0], R[1], sep = "#")
```