**Q1(A) a) Write a menu-driven program in python to implement following on binary file doctor.dat of the given structure:** **[8]**

1. **Create a binary file to store the doctor details: Doctor\_Id, Doctor\_Name,Specialization,Salary**
2. **Insert n records into the file.**
3. **Display doctor id and name of all doctors whose salary more than 30000**
4. **Update the salary of the doctor by 1000 whose id is 13933 ( change to be reflected in file)**
5. **Display the file doctor.dat**

**(B) Note the following to establish connectivity between Python and MYSQL: [4]**

**Table : *Doctor*(Did: int , Dname: Varchar(20) , Salary: Int )**

**The given code is used to insert the details to table which are accepted from the user.**

**Write the following missing statements to complete the code:**

**import mysql.connector as mysql**

**con=mysql.connect(host="localhost",user="root", password="tiger", database="school")**

**mycursor=con.\_\_\_\_\_\_\_\_\_\_\_ # Statement 1**

**did=int(input("Enter the doctor number"))**

**dname=input("Enter the name")**

**sal=int(input("Enter the salary"))**

**mycursor.execute(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) # Statement 2**

**con.\_\_\_\_\_\_\_ # Statement 3**

**print(\_\_\_\_\_,”Records Inserted Successfully “) # Statement4**

**con.close()**

**Statement 1 – Create the cursor Object.**

**Statement 2 – Query to insert the record in to the table where the records are accepted from user .**

**Statement 3 – Command to add record permanently in the table.**

**Statement 4 – Display the row count.**

**Q1(A) Write a menu driven program to perform following operations into a binary file shoes.csv with the help of user defined functions. The structure of file content is: [s\_id, name, brand, type, price] [8]**

1. **Create shoes.csv file.**
2. **Append 3 records**
3. **Display only those records of the shoes whose brand is “Adidas”.**
4. **Delete shoe whose id is ‘101’ ( change to be reflected in file)**
5. **Display the file**

**(B) Observe the following code and fill in the given blanks as directed: [4]**

|  |
| --- |
| **import mysql.connector as mycon**  **mydb=mycon.connect(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) # Statement 1**  **mycursor=mydb.\_\_\_\_\_\_\_\_\_\_\_ # Statement 2**  **mycursor.execute(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) # Statement 3**  **mydb.\_\_\_\_\_\_\_\_\_\_\_\_# Statement 4**  **print(mycursor.rowcount, "record(s) affected")** |

**The partial code is given for to update records in table. The customer table is given as following:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **City** | **BillAmt** | **MobileNo** |
| **111** | **Abhishek** | **Ahmedabad** | **1500** | **9999999999** |
| **222** | **Ram kumar** | **Chennai** | **1501** | **8888888888** |

**i. Write the parameters and values required to fill statement 1. The parameters values are as follows:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Database Server** | **User** | **Pasword** | **Database** |
| **localhost** | **root** | **Sql123** | **customer** |

**ii. Write function name to create cursor and fill in the gap for statement 2.**

**iii. Write a query to fill statement 3 to delete records with City = 'Chennai' in customer table.**

**iv. Write function to fill statement 4 to save the records into table.**

**Q1 (A) Write a menu driven program to do the following operations on stock.csv file with the help of user defined functions. [8]**

1. **Create a file stock.csv to store details of product: Pcode, PName, Price, Brand.**
2. **Insert 3 records into the file.**
3. **Display the total price of all the products.**
4. **Increase the price of the product by 10,if brand name is ‘Adil’**
5. **Display the file**

**(B)**  **A table Drug is created in the database Medicine, password is “abc123”. The details of table are given below. (4)**



**import mysql.connector as sqltor**

**mycon = sqltor.connect( \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ) STATEMENT #1**

**cursor = mycon.cursor( )**

**cursor.execute(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ) STATEMENT #2**

**data = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ STATEMENT #3**

**for rec in data:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ STATEMENT #4**

**mycon.close()**

**a) Complete the statement #1 to write appropriate missing parameters and values.**

**b) Complete the statement #2, to fetch drugName, and price from table Drug in descending order of price.**

**c) Complete the statement #3, to fetch all the records from the resultset.**

**d) Complete statement #4, , to print contents of the table Drug.**

**Q1 (A) Write a menu driven program to do the following operations on student.dat file with the help of user defined functions. [8]**

1. **Create a file student.dat to store details of the student: Scode, SName, House, Sport.**
2. **Insert 3 records into the file.**
3. **Display only those records where sport is “Cricket”.**
4. **Delete the record if Sport is “Football”**
5. **Display the file**

**(B)** **Note the following to establish connectivity between Python and MYSQL: [4]**

**Table : *Employee*( Eno integer , Ename Varchar ,Department Varchar , Salary Integer )**

**The given code is used to insert the details to table which are accepted from the user.**

**Write the following missing statements to complete the code:**

**import mysql.connector as mysql**

**con=mysql.connect(host="localhost",user="root", password="tiger", database="school")**

**mycursor=con.\_\_\_\_\_\_\_\_\_\_\_ # Statement 1**

**eno=int(input("Enter the employee number"))**

**ename=input("Enter the name")**

**dept=input("Enter the department")**

**sal=int(input("Enter the salary"))**

**mycursor.execute(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) # Statement 2**

**con.\_\_\_\_\_\_\_ # Statement 3**

**print(\_\_\_\_\_,”Records Inserted Successfully “) # Statement4**

**con.close()**

**Statement 1 – Create the cursor Object.**

**Statement 2 – Query to insert the record in to the table.**

**Statement 3 – Command to add record permanently in the table.**

**Statement 4 – Display the row count.**

Q1(A) **Write a menu driven program to do the following operations on Book.csv file with the help of user defined functions. [8]**

1. **Create a CSV file to store the book details: BookNo,Bookname,Author,Price.**
2. **Search for the BookNo,Bookname whose author is “Charles”.**
3. **Display only those records of the books whose price is more than 50.**
4. **Change Author name from “Johnny” to “John”, change to be reflected in file**
5. **Display the file**

(B)**Note the following to establish connectivity between Python and MYSQL: [4]**

**The given python database connectivity script is to increase the salary by 5000 for those who scored above 90.**

**import mysql.connector**

**con=mysql.connector.\_\_\_\_\_\_\_(host='localhost', user="root", passwd="root", database='advaith') # Statement 1**

**cur=con.cursor()**

**cur.\_\_\_\_\_\_\_("CREATE TABLE player1 (pno INT(5), pname VARCHAR(10), city CHAR(10),score int(3),salary int(6));")**

**#Statement2**

**cur.execute("Select \* from player1")**

**cur.execute("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;") #Statement 3**

**con.commit()**

**print("The content of the table after updating::")**

**cur.execute("select \* from player1;")**

**data=\_\_\_\_\_\_\_ #Statement 4**

**for i in data:**

**print(i)**

**con.close()**

**Statement1: To establish the connection to MySQL**

**Statemet2: To run the SQL query.**

**Statement3: To increase the salary by 5000 for those who scored above 90.**

**Statement4: To fetch all the records.**

**Q1 (A) Write a menu driven program to do the following operations on stock.dat file with the help of user defined functions. [8]**

1. **Create a file stock.dat to store details of product: Pcode, PName, Price, Brand.**
2. **Add n records into the file.**
3. **Display the total price of all the products.**
4. **Delete items where price is less than 10**
5. **Display file**

**(B)**  **A table Drug is created in the database Medicine. The details of table are given below. (4)**



**import mysql.connector as sqltor**

**mycon = sqltor.connect( \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ) STATEMENT #1**

**cursor = mycon.cursor( )**

**cursor.execute(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ) STATEMENT #2**

**data = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ STATEMENT #3**

**for rec in data:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ STATEMENT #4**

**mycon.close()**

**a) Complete the statement #1 to write appropriate missing parameters and values.**

**b) Complete the statement #2, to fetch drugName, and price from table Drug in descending order of price.**

**c) Complete the statement #3, to fetch all the records from the resultset.**

**d) Complete statement #4, to print contents of the table Drug.**

**Q1(A) Write a menu driven program to do the following operations on employee.csv file with the help of user defined functions. [8]**

1. **Create a CSV file to store employee details: empno,empname,salary,designation .**
2. **Insert 3 records into the file.**
3. **Display only those records of employees whose salary is more than 50000.**
4. **Increase the salary of those employees who are manager in the company by 1000**
5. **Display the file**

**(B) Note the following to establish connectivity between Python and MYSQL:**

**Table : *Employee*( Eno integer , Ename Varchar ,Department Varchar , Salary Integer )**

**The given code is used to select employee details whose salary is more than 25000**

**Write the following missing statements to complete the code:**

**import mysql.connector as mysql**

**con=mysql.connect(host="localhost",user="root", password="tiger", database="company")**

**mycursor=con.\_\_\_\_\_\_\_\_\_\_\_ # Statement 1**

**mycursor.execute(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) # Statement 2**

**data=\_\_\_\_\_\_\_\_\_\_\_\_\_ # Statement 3**

**print(“Total records selected”,\_\_\_\_\_) # Statement4**

**con.close()**

**Statement 1 – Create the cursor Object.**

**Statement 2 – Query to select records of employees whose salary is more than 25000.**

**Statement 3 – Fetch only one record from the result set.**

**Statement 4 –Display the row count.**

**Q2: Report File [7]**

**Q3: Project [8]**

**Q4: Viva voce [3]**

**Q1(A) Write a menu driven program to do the following operations on student.dat file with the help of user defined functions. [8]**

1. **Create a binary file to store student details: Rollno,Sname,Percentage.**
2. **Insert 3 records into the file.**
3. **Display only those records of students whose percentage is more than 95.**
4. **Increase the percentage of those students by 5 who got 45 percent.**
5. **Display the file**

**(B) The BOOKS table of TEST database contains the records shown below:**

|  |  |
| --- | --- |
| **TITLE** | **ISBN** |
| **Die to Live** | **7890123456** |
| **Again** | **5678345678** |
| **Ushakaal** | **1234098765** |
| **Ushakiran** | **3456781902** |

**The given python database connectivity script is to delete the record from the table that has the Title as “Ushakaal”.**

**Write the following missing statements to complete the code:**

**import \_\_\_\_\_\_\_\_\_\_\_ # Statement 1**

**conn= mysql.connector.connect(host=”localhost”, user=”root”, passwd=”fast”, database=”test”)**

**cursor=\_\_\_\_\_\_\_\_\_\_\_ # Statement 2**

**cursor.execute(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) # Statement 3**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # Statement 4**

**print(“Rows affected:”,cursor.rowcount)**

**conn.close()**

**Statement 1 – To import the connector**

**Statement 2 – To create cursor object**

**Statement 3 – To delete the record from the table that has the Title as “Ushakaal”.**

**Statement 4 – To save the changes in the database**

Q1(A) **Write a menu driven program to do the following operations on Book.csv file with the help of user defined functions. [8]**

1. **Create a CSV file to store the book details: BookNo,Bookname,Author,Price.**
2. **Insert 3 records into the file.**
3. **Search for the BookNo,Bookname whose author is “Charles”.**
4. **Display only those records of the books whose price is more than 50.**
5. **Display the file**

(B)**Note the following to establish connectivity between Python and MYSQL: [4]**

**The given python database connectivity script is to increase the salary by 5000 for those who scored above 90.**

**import mysql.connector**

**con=mysql.connector.\_\_\_\_\_\_\_(host='localhost', user="root", passwd="root", database='advaith') # Statement 1**

**cur=con.cursor()**

**cur.\_\_\_\_\_\_\_("CREATE TABLE player1 (pno INT(5), pname VARCHAR(10), city CHAR(10),score int(3),salary int(6));")**

**#Statement2**

**cur.execute("Select \* from player1")**

**cur.execute("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;") #Statement 3**

**con.commit()**

**print("The content of the table after updating::")**

**cur.execute("select \* from player1;")**

**data=\_\_\_\_\_\_\_ #Statement 4**

**for i in data:**

**print(i)**

**con.close()**

**Statement1: To establish the connection to MySQL**

**Statemet2: To run the SQL query.**

**Statement3: To increase the salary by 5000 for those who scored above 90.**

**Statement4: To fetch all the records.**

**Q1(A)** **Write a menu driven program to do the following operations on salary.dat file with the help of user defined functions. [8]**

1. **Create a binary file to store the salary details: Empid,Emp\_name,salary**
2. **Insert 3 records into the file.**
3. **Display the record of an employee whose Empid is E121.**
4. **Increase the salary by 5000 if the empid is “E001”.**
5. **Display the file**

**(B) Observe the following code and fill in the given blanks as directed: [4]**

|  |
| --- |
| **import mysql.connector as mycon**  **mydb=mycon.connect(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) # Statement 1**  **mycursor=mydb.\_\_\_\_\_\_\_\_\_\_\_ # Statement 2**  **mycursor.execute(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) # Statement 3**  **row = mycursor.\_\_\_\_\_\_\_\_\_\_\_\_\_\_# Statement 4**  **print(row)** |

**The partial code is given for displaying one record from customer table created . The customer table is given as following:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **City** | **BillAmt** | **MobileNo** |
| **111** | **Abhishek** | **Ahmedabad** | **1500** | **9999999999** |
| **222** | **Ram kumar** | **Chennai** | **1501** | **8888888888** |

**i. Write the parameters and values required to fill statement 1. The parameters values are as follows:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Database Server** | **User** | **Pasword** | **Database** |
| **localhost** | **root** | **Sql123** | **customer** |

**ii. Write function name to create cursor and fill in the gap for statement 2.**

**iii. Write a query to fill statement 3 to display all records from customer table.**

**iv. Write function to fill statement 4 to fetch one record from customer table.**

**Q1(A) a) Write a menu-driven program in python to implement following on binary file doctor.dat of the given structure:** **[8]**

1. **Create a binary file to store the doctor details: Doctor\_Id, Doctor\_Name,Specialization,Salary**
2. **Insert 3 records into the file.**
3. **Search for doctor id and name whose is pediatric.**
4. **Update the salary of the doctor by 1000 whose id is 13933**
5. **Display the file**

**(B) Note the following to establish connectivity between Python and MYSQL: [4]**

**Table : *Doctor*(Did: int , Dname: Varchar(20) , Salary: Int )**

**The given code is used to insert the details to table which are accepted from the user.**

**Write the following missing statements to complete the code:**

**import mysql.connector as mysql**

**con=mysql.connect(host="localhost",user="root", password="tiger", database="school")**

**mycursor=con.\_\_\_\_\_\_\_\_\_\_\_ # Statement 1**

**did=int(input("Enter the doctor number"))**

**dname=input("Enter the name")**

**sal=int(input("Enter the salary"))**

**mycursor.execute(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) # Statement 2**

**con.\_\_\_\_\_\_\_ # Statement 3**

**print(\_\_\_\_\_,”Records Inserted Successfully “) # Statement4**

**con.close()**

**Statement 1 – Create the cursor Object.**

**Statement 2 – Query to insert the record in to the table where the records are accepted from user .**

**Statement 3 – Command to add record permanently in the table.**

**Statement 4 – Display the row count.**

**Q1(A) Write a menu driven program to perform following operations into a binary file shoes.csv with the help of user defined functions. The structure of file content is: [s\_id, name, brand, type, price] [8]**

1. **Create shoes.csv file.**
2. **Add 3 records**
3. **Display only those records of the shoes whose brand is “Adidas”.**
4. **Update the price of the shoe whose id is ‘101’**
5. **Display the file**

**(B) Observe the following code and fill in the given blanks as directed: [4]**

|  |
| --- |
| **import mysql.connector as mycon**  **mydb=mycon.connect(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) # Statement 1**  **mycursor=mydb.\_\_\_\_\_\_\_\_\_\_\_ # Statement 2**  **mycursor.execute(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) # Statement 3**  **mydb.\_\_\_\_\_\_\_\_\_\_\_\_# Statement 4**  **print(mycursor.rowcount, "record(s) affected")** |

**The partial code is given for to update records in table. The customer table is given as following:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CustomerID** | **CustomerName** | **City** | **BillAmt** | **MobileNo** |
| **111** | **Abhishek** | **Ahmedabad** | **1500** | **9999999999** |
| **222** | **Ram kumar** | **Chennai** | **1501** | **8888888888** |

**i. Write the parameters and values required to fill statement 1. The parameters values are as follows:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Database Server** | **User** | **Pasword** | **Database** |
| **localhost** | **root** | **Sql123** | **customer** |

**ii. Write function name to create cursor and fill in the gap for statement 2.**

**iii. Write a query to fill statement 3 to update records with City = 'Delhi' for CustomerName=’Abhishek’ in customer table.**

**iv. Write function to fill statement 4 to save the records into table.**