NATIONAL PUBLIC SCHOOL
RAJAJINAGAR

COMPUTER SCIENCE PROJECT

QUIZZERY
QUIZ MANAGEMENT SOFTWARE

Name: _____

Class: XII

Board Reg. No.: _____

CONTENTS

ACKNOWLEDGEMENT

INTRODUCTION TO PYTHON AND MYSQL:

Python

"According to Stackoverflow, Python is the most preferred language which means that the majority of developers use python."

History

Python is a popular high-level general-purpose programming language. It was created in 1991 by Guido van Rossum and is maintained by the Python Software Foundation. It was designed with code readability in mind, and its syntax lets programmers to express concepts in fewer lines of code.

Need and advantages:

Python is the third most popular programming language in the world, behind only Java and C.
Some features of Python:

1. Easy to code (High Level Language)
2. Free and Open Source
3. Object-Oriented Language
4. GUI Programming Support:
   Graphical User interfaces can be made using a module such as PyQt5, PyQt4, wxPython, or Tk in python. PyQt5 is the most popular option for creating graphical apps with Python.
5. Extensible feature: Python is an Extensible language. We can write some Python code into C or C++ language and also we can compile that code in C/C++ language.
6. Python is Portable language: Python code can run on any OS platform.
7. Large Standard Library: Python has a large standard library which provides a rich set of modules and functions to facilitate reusability of code.
8. Dynamically Typed Language

There are many reasons for the ubiquity of Python, including:

- Its ease of use.
- Its simple syntax.
- Its thriving community. (There is a community that supports and develops the ecosystem, adding their own contributions and libraries.)
- It is very versatile

Present Day Uses

And due to the above features, it is widely used in
- Web Development
- Game Development
- AI and Machine learning
- Desktop GUI
- Applications for Business, Education etc
- Data Science and Visualization

MySQL

MySQL is one of the most widely used open source relational database management systems in the world. With a total distribution amounting to more than 100 million worldwide, the software has become the first choice of large data management corporations spanning over a wide range of internet technologies.

History

MySQL was founded in 1995 by the Swedish business MySQL AB. Michael Widenius (Monty), David Axmark, and Allan Larsson created the platform. The primary goal was to provide effective and dependable data management solutions to both home and professional customers. By the year 2000, there had been over a half-dozen alpha and beta versions of the platform released. These versions were compatible with nearly all of the major platforms.

Need and advantages:

MySQL is a free-to-use, open-source database that facilitates effective management of databases by connecting them to the software. It is a stable, reliable and powerful solution with advanced features like the following:

- **Open-source and compatible:** MySQL was also designed to be very interoperable with a diverse set of operating systems, programming languages, and database models.(Like Alternative DBMS systems, SQL and NoSQL databases, and cloud databases) MySQL also includes significant database design and data modeling features (e.g. conceptual data models or logical data models). As a result, it is a straightforward and practical alternative for many businesses.

- **Fast and reliable:** MySQL was designed for speed. It is also well-known for its dependability as a database administrator, thanks to a vast community of programmers

who have rigorously tested the code. Another advantage is that it is quite easy to learn and utilize.

- **Availability:** Online companies and online platforms must be able to deliver services to a worldwide audience 24 hours a day, seven days a week. This is why MySQL has high availability as a standard feature. It employs a variety of cluster servers and data replication configurations to provide continuous uptime even in the event of a loss. MySQL also employs a number of backup and recovery mechanisms to guarantee that data is not lost in the case of a system failure or unintended deletion.

- **Scalability:** The database store must be scaled up as data quantities and user loads grow. It must be able to handle the increased workload without degrading performance. MySQL may be scaled in a variety of methods, the most common of which being replication, clustering, and sharding (or a combination of them). MySQL is scalable and it maintains its performance.

- **Security:** Businesses must constantly consider this while protecting sensitive data and defending against cyberattacks. To ensure data integrity, MySQL provides encryption via the Secure Sockets Layer (SSL) protocol, data masking, authentication plugins, and other levels of security. MySQL Enterprise features firewall protection against cyberattacks as well.

Present Day Uses:
Online Transactional Processing

LAMP Stack – For developing a custom web application, LAMP stack has often been the favorite choice of platform. The database management of the same applications is often done through MySQL

eCommerce Applications – User data, consumer information, and transactional data are an integral part of an eCommerce application, and choosing a secure database is of primary concern. MySQL is popularly used as a transactional engine for applications with a broader customer base and diverse products.

Some companies that use MySQL:

COMPANIES

5648 companies reportedly use **MySQL** in their tech stacks, including **Uber, Airbnb,** and **Netflix.**

Uber	Airbnb	Netflix	Pinterest	Shopify	Amazon	Udemy	Twitter	Slack

INTRODUCTION TO PROJECT

Our project, Quizzery is a quiz management software that aims to make use of functionalities of MySQL and Python to create a quiz management system.

Quizzery includes the concept of multi-users and stores the data of each in a systematic and organized manner, thus enabling a quick access to quizzes, an attempt summary of the participants and their scores. It also allows modification of created quizzes.

Front-end application is Python that accesses the quiz data stored in the back-end, MySQL.

FLOW DIAGRAM
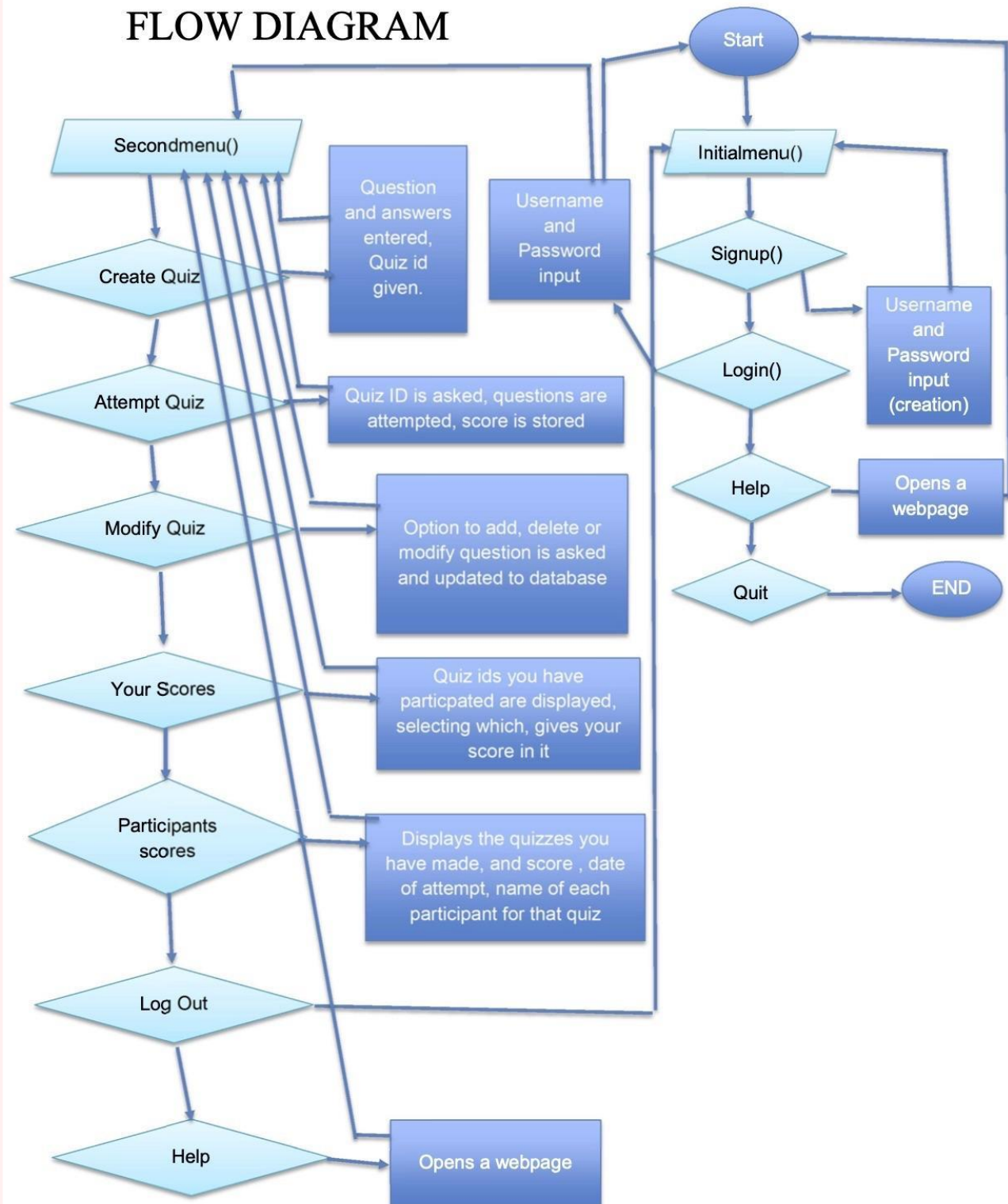
MODULES & FUNCTIONS

Modules:

Mysql.connector: MySQL Connector/Python enables Python programs to access MySQL databases.

Sys: sys.exit() used to allow the user to exit from Python.

Getpass: the getpass() function is used to prompt users using the string prompt and reads the input from the user as Password.

PrettyTable: PrettyTable is a Python library for generating simple ASCII tables.

Webbrowser: The webbrowser module provides a high-level interface to allow displaying web-based documents to users. We have used it to display a video.

Functions:

extraction() : to extract current status of variables (last question number, quiz number and login ID used) from the MySQL table

signup(): creating new login ID for new user

login(): login to existing account

initialmenu(): providing options to sign up/ login/ quit

secondmenu(): providing options to create/attempt/modify quiz and view scores

initialstuff(): creating tables in MySQL and initializing variables - to be run only once

create_question(): to input question and options and store in table

create_quiz(): using create_question to create a quiz

attempt_quiz(): accepting a valid quiz ID, displaying the questions and accepting answers as input and storing scores and right questions in MySQL table

modify_quiz(): Provides 3 options-

1. Adding new questions
2. Deleting existing questions
3. Modifying existing questions

view_your_score(): displays scores of quizzes attempted by current user

view_participant_score(): displays scores of participants of quizzes created by current user

PROGRAM CODE

```python
import mysql.connector as sqltor
import sys, getpass, webbrowser
from prettytable import PrettyTable

h='sql6.freesqldatabase.com'
db='sql6475362'
u='sql6475362'
pwd='u7LSIRZjM7'


def extraction():
    mycon=sqltor.connect(host=h,user=u,password=pwd,database=db)
    cur=mycon.cursor()

    global q_no, quiz_id, rand
    #q_no
    cur.execute('select * from t1')
    data=cur.fetchall()
    L1=[]
    for d in data:
        L1.append(d[0])

    if L1==[]:
        q_no=0
    else:
        q_no=max(L1)

    #quiz_id
    cur.execute('select * from t1')
    data=cur.fetchall()
    L2=[]
    for d in data:
        L2.append(d[7])
    if L2==[]:
        quiz_id=0
    else:

        quiz_id=max(L2)

    #rand
    cur.execute('select * from t3')
    data=cur.fetchall()
    L3=[]
    for d in data:
        L3.append(d[0])
    if L3==[]:
        rand=0
    else:
        rand=max(L3)

    mycon.close()

def signup():
    mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
    cur=mycon.cursor()
    cur.execute('select * from t2')
    data=cur.fetchall()
    L=[]
```

```python
    global loginid
    for d in data:
        L.append(d[0])

    if L==[]:
        loginid=0
    else:
        loginid=max(L)

    loginid+=1

    while True:
        name=input("Enter your username: ")
        chk=0
        for d in data:
            if d[1]==name:
                print('This username already exists. Pick another one.')
                chk=1
                break
        if chk==1:
            continue
        mycon.close()

        pas = getpass.getpass('Enter your password: ')
        confirm = getpass.getpass('Confirm your password: ')

        while pas!=confirm:
            print('Entered passwords do not match! Please try again.')
            pas = getpass.getpass('Enter your password: ')
            confirm = getpass.getpass('Confirm your password: ')

        print("Don't forget your password! :)")
        print("Kindly log in with your new Username and Password!")
        mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
        cur=mycon.cursor()
        cur.execute("insert into t2 values({},'{}','{}')".format(loginid,name,pas))
        mycon.commit()
        mycon.close()
        break

def login():
    global loginid
    nam=input('Enter your username: ')
    nam=nam.strip()
    pas = getpass.getpass('Enter your password: ')
    mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
    cur=mycon.cursor()
    cur.execute('select * from t2')
    data=cur.fetchall()
    for d in data:
        if d[1]==nam and d[2]==pas:
            chk=1
            log=d[0]
            loginid=log
            break
        else:
            chk=0
    if chk==1:
        print("You have now successfully logged in")
        secondmenu()
```

```python
        else:
            print("Your password or username is incorrect!")
            initialmenu()

    mycon.commit()
    mycon.close()

def secondmenu():
    while True:
        print("********************************************************")
        print("1. Create quiz")
        print("2. Attempt Quiz ")
        print("3. Modify Quiz")
        print("4. View Your scores")
        print("5. View Your Quiz Participants' scores")
        print("6. Log out")
        print("7. I need help, I would like to send a query")
        print("********************************************************")
        c=''
        while not(c):
            try:
                c=int(input("Enter choice: "))
                if c==0:
                    print('Enter an accurate option.')
            except ValueError:
                print('Enter an accurate option.')
                c=''
        if c==1:
            extraction()
            create_quiz()
        elif c==2:
            extraction()
            attempt_quiz()
        elif c==3:
            extraction()
            modify_quiz()
        elif c==4:
            extraction()
            view_your_score()
        elif c==5:
            extraction()
            view_participant_score()
        elif c==6:
            initialmenu()
        elif c==7:
            webbrowser.open("https://www.youtube.com/embed/o-AeEM1Nk0c?autoplay=1")
        else:
            print('Invalid choice. Enter a valid option.')


def initialmenu():
    while True:
        print("********************************************************")
        print("1. Sign Up")
        print("2. Log In ")
        print("3. Quit")
        print("4. I need help, I would like to send a query")
        print("********************************************************")
        c=''
        while not(c):
            try:
```

```python
            c=int(input("Enter choice: "))
            if c==0:
                print('Enter an accurate option.')
        except ValueError:
            print('Enter an accurate option.')
            c=''
    if c==1:
        signup()
    elif c==2:
        login()
    elif c==4:
        webbrowser.open("https://www.youtube.com/embed/o-AeEM1Nk0c?autoplay=1")
    elif c==3:
        sys.exit('Thank You!')
    else:
        print('Invalid choice. Enter a valid option.')

def initialstuff():
    global quiz_id
    global q_no
    quiz_id=0
    q_no=0
    global loginid, chk, a, rand
    a=1
    chk=0
    rand=0
    loginid=0
    mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
    cur=mycon.cursor()
    cur.execute("DROP TABLES IF EXISTS t1, t2, t3") #dropping the tables if it already exists

    t1 ='''CREATE TABLE t1
    (
    question_id int primary key,
    question varchar(200) not null,
    a varchar(50) not null,
    b varchar(50) not null,
    c varchar(50) not null,
    d varchar(50) not null,
    answer char(1) not null,
    quiz_id int not null,
    loginid int not null
    )'''

    t2 ='''CREATE TABLE t2
    (
        loginid int primary key,
        name varchar(30) not null,
        password varchar(20) not null
    )'''

    t3 ='''CREATE TABLE t3
    (  some_number int primary key,
        loginid int not null,
        participated int not null,
        right_questions varchar(200) not null,
        score int not null,
        tim TIMESTAMP DEFAULT CURRENT_TIMESTAMP

    )'''
```

```python
    cur.execute(t1)
    cur.execute(t2)
    cur.execute(t3)

    mycon.commit()
    mycon.close()


def create_question():
    global q_no, l
    while True:
        q_no+=1
        q=input('Enter the question  ')
        while q=='':
            q=input('Question cannot be left empty. Enter a question: ')
        a=input('Enter option "a"  ')
        while a=='':
            a=input('Option cannot be left empty. Enter an option: ')
        b=input('Enter option "b"  ')
        while b=='':
            b=input('Option cannot be left empty. Enter an option: ')
        c=input('Enter option "c"  ')
        while c=='':
            c=input('Option cannot be left empty. Enter an option: ')
        d=input('Enter option "d"  ')
        while d=='':
            d=input('Option cannot be left empty. Enter an option: ')

        ans=input('Enter the answer (a or b or c or d)')

        if len(ans)!=1:
            ans=''

        while ans not in 'abcd' or ans=='':
            ans=input('Enter a or b or c or d only')
            if len(ans)!=1:
                ans=''


        print()
        mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
        cur=mycon.cursor()

        cur.execute("insert into t1 values({},'{}','{}','{}','{}','{}','{}',{},{})".format(q_no,q,a,b,c,d,ans,quiz_id,loginid))
        mycon.commit()

        mycon.close()

        x=input('Do you want to add another question? (y/n) ')
        if len(x)!=1:
            x=''
        while x not in 'yYnN' or x=='':
            x=input('Enter y or n only: ')
            if len(x)!=1:
                x=''
        if x=='N' or x=='n':
            break

def create_quiz():
    global quiz_id
```

```python
        quiz_id+=1

        create_question()

    print('Quiz has been successfully created')
    print('The quiz ID is',quiz_id)

def attempt_quiz():
    global rand
    flag=0
    rightlist=[]
    quiz="
    while not(quiz):
        try:
            quiz=int(input("Enter quiz code: "))
            if quiz==0:
                print('Enter an accurate quiz code.')
        except ValueError:
            print('Enter an accurate quiz code.')
            quiz="
    mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
    cur=mycon.cursor()
    cur.execute('select * from t1')
    data=cur.fetchall()
    score=0
    a=0

    for d in data:
        if d[7]==quiz:
            flag=1

    if flag==1:
        while True:
            for d in data:
                if d[7]==quiz:
                    a+=1
                    print(a,". ",d[1])
                    print("a)",d[2],"b)",d[3],"c)",d[4],"d)",d[5])
                    ans=input("Enter answer: ")
                    if len(ans)!=1:
                        ans="
                    while ans not in 'abcdABCD' or ans==":
                        ans=input('Enter a correct option a or b or c or d :')
                        if len(ans)!=1:
                            ans="
                    if ans==d[6]:
                        rightlist= rightlist + [d[0]]
                        print("Correct answer")
                        score+=1
                    else:
                        print("Wrong answer, answer was", d[6])
                    print()

            rand+=1
            cur.execute("insert into t3 (some_number, loginid, participated, right_questions, score)
values({},'{}','{}','{}','{}')".format(rand,loginid,quiz,rightlist,score))
            mycon.commit()
            break

    else:
        print("Quiz doesn't exist.")
```

```python
        mycon.close()



def modify_quiz():
    global loginid
    mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
    cur=mycon.cursor()
    cur.execute('select * from t1')
    data=cur.fetchall()
    P=[]
    for d in data:
        if d[8]==loginid:
            if d[7] not in P:
                P.append(d[7])
    mycon.close()

    if len(P)==0:
        print('You have not created any quizzes yet!')
        return

    print('You have created the following quiz/quizzes:')
    for p in P:
        print('Quiz ID:',p)


    quiz_id=''
    while not(quiz_id):
        try:
            quiz_id=int(input('Enter quiz id of quiz to be modified: '))
            if quiz_id==0:
                print('Enter an accurate quiz_id.')
        except ValueError:
            print('Enter an accurate quiz code.')
            quiz_id=''

    if quiz_id not in P:
        print('Inaccurate quiz ID entered.')
        return

    print('The question(s) in this quiz are:')
    mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
    cur=mycon.cursor()
    cur.execute('select * from t1')
    data=cur.fetchall()

    t = PrettyTable(['Question number:', 'Question', 'a','b','c','d','answer'])
    for d in data:
        if d[7]==quiz_id:
            t.add_row([d[0],d[1],d[2],d[3],d[4],d[5],d[6]])
    print(t)
    while True:
        print('What do you want to do?')
        print('1.Add new questions')
        print('2.Delete existing question')
        print('3.Modify existing question')
        print("4.I'm done modifying")


        ch=''
```

```python
while not(ch):
    try:
        ch=int(input('Enter your choice (1 or 2 or 3 or 4) '))
        if ch==0:
            print('Enter an accurate option.')
    except ValueError:
        print('Enter an accurate choice.')
        ch="

if ch==1:
    extraction()
    global q_no, l
    while True:
        q_no+=1
        q=input('Enter the question  ')
        while q=='':
            q=input('Question cannot be left empty. Enter a question: ')
        a=input('Enter option "a"  ')
        while a=='':
            a=input('Option cannot be left empty. Enter an option: ')
        b=input('Enter option "b"  ')
        while b=='':
            b=input('Option cannot be left empty. Enter an option: ')
        c=input('Enter option "c"  ')
        while c=='':
            c=input('Option cannot be left empty. Enter an option: ')
        d=input('Enter option "d"  ')
        while d=='':
            d=input('Option cannot be left empty. Enter an option: ')

        ans=input('Enter the answer (a or b or c or d)')
        if len(ans)!=1:
            ans="
        while ans not in 'abcd' or ans=='':
            ans=input('Enter a or b or c or d only')
            if len(ans)!=1:
                ans="

        print()
        mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
        cur=mycon.cursor()

        cur.execute("insert into t1 values({},'{}','{}','{}','{}','{}','{}',{},{})".format(q_no,q,a,b,c,d,ans,quiz_id,loginid))
        mycon.commit()

        mycon.close()

        x=input('Do you want to add another question? (y/n) ')
        if len(x)!=1:
            x="
        while x not in 'yYnN' or x=='':
            x=input('Enter y or n only: ')
            if len(x)!=1:
                x="
        if x=='N' or x=='n':
            break

elif ch==2:
    extraction()
    while True:
        mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
```

```python
            cur=mycon.cursor()
            Q=[]
            cur.execute('select * from t1')
            data=cur.fetchall()
            t = PrettyTable(['Question number:', 'Question', 'a','b','c','d','answer'])
            for d in data:
                if d[7]==quiz_id:
                    t.add_row([d[0],d[1],d[2],d[3],d[4],d[5],d[6]])
                    Q.append(d[0])
            print(t)


            x=''
            while not(x):
                try:
                    x=int(input('Enter question number of question to be deleted: '))
                    if x==0:
                        print('Enter an accurate number.')
                except ValueError:
                    print('Enter an accurate number.')
                    x=''


            if x in Q:
                sql = "DELETE FROM t1 WHERE question_id = %s"
                val=(x,)
                cur.execute(sql,val)

                mycon.commit()
                mycon.close()
                print('Successfully deleted')
                t=input('Do you want to delete another question? (y/n)')
                if len(t)!=1:
                    t=''
                while t not in 'yYnN' or t=='':
                    t=input('Enter y or n only: ')
                    if len(t)!=1:
                        t=''
                if t=='n' or t=='N':
                    break

            else:
                print('Inaccurate question ID entered')

    elif ch==3:
        extraction()
        while True:
            mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
            cur=mycon.cursor()
            cur.execute('select * from t1')
            data=cur.fetchall()
            Q=[]
            t = PrettyTable(['Question number:', 'Question', 'a','b','c','d','answer'])
            for d in data:
                if d[7]==quiz_id:
                    t.add_row([d[0],d[1],d[2],d[3],d[4],d[5],d[6]])
                    Q.append(d[0])
            print(t)

            x=''
            while not(x):
```

```python
            try:
                x=int(input('Enter question number of question to be modified: '))
                if x==0:
                    print('Enter an accurate number.')
            except ValueError:
                print('Enter an accurate number.')
                x=''

            if x not in Q:
                print('Inaccurate question ID entered')
                break
            sql = "DELETE FROM t1 WHERE question_id = %s"
            val=(x,)
            cur.execute(sql,val)

            mycon.commit()
            mycon.close()

            q_no=x
            q=input('Enter the question  ')
            a=input('Enter option "a"  ')
            b=input('Enter option "b"  ')
            c=input('Enter option "c"  ')
            d=input('Enter option "d"  ')
            ans=input('Enter the answer (a or b or c or d)')
            print()
            mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
            cur=mycon.cursor()

            cur.execute("insert into t1 values({},'{}','{}','{}','{}','{}','{}',{},{})".format(q_no,q,a,b,c,d,ans,quiz_id,loginid))
            mycon.commit()

            mycon.close()

            t=input('Do you want to modify another question? (y/n)')
            if len(t)!=1:
                t=''
            while t not in 'yYnN' or t=='':
                t=input('Enter y or n only: ')
                if len(t)!=1:
                    t=''
            if t=='n' or t=='N':
                break
    elif ch==4:
        break
    else:
        print('Invalid choice. Enter a valid option.')

def view_your_score():
    mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
    cur=mycon.cursor()
    cur.execute('select * from t3')
    data=cur.fetchall()
    P=[]
    for d in data:
        if d[1]==loginid:
            P.append(d[2])
    mycon.close()

    R=[]
    if len(P)==0:
```

```python
            print('You have not taken part in any quiz yet!')
        else:
            print('You have participated in the following quiz/quizzes:')
            for p in P:
                if p not in R:
                    R.append(p)
                    print('Quiz ID:',p)



        x=''
        while not(x):
            try:
                x=int(input('Enter the quiz ID to view your score: '))
                if x==0:
                    print('Enter an accurate quiz ID.')
            except ValueError:
                print('Enter an accurate quiz ID.')
                x=''

        if x in P:
            mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
            cur=mycon.cursor()
            cur.execute('select * from t3')
            data=cur.fetchall()
            a=0
            for d in data:
                if d[1]==loginid:
                    if d[2]==x:
                        a+=1
                        print('Your score is',d[4], "Attempted on", d[5])
            print("You attempted the quiz ,", a, " time(s).")
            mycon.close()

        else:
            print('Inaccurate quiz ID entered')

def view_participant_score():
    mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
    cur=mycon.cursor()
    cur.execute('select * from t1')
    data=cur.fetchall()
    P=[]

    for d in data:

        if d[8]==loginid:
            if d[8]==loginid:


                P.append(d[7])
    mycon.close()
    R=[]
    if len(P)==0:
        print('You have not created any quizzes yet!')

    else:
        print('You have created the following quiz/quizzes:')

        for p in P:
            if p not in R:
                R.append(p)
```

```python
            print('Quiz ID:',p)

        x=''
        while not(x):
            try:
                x=int(input('Enter the quiz ID to view participant scores: '))
                if x==0:
                    print('Enter an accurate quiz ID.')
            except ValueError:
                print('Enter an accurate quiz ID.')
                x=''

        if x in P:
            mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
            cur=mycon.cursor()
            cur.execute('select * from t3')
            data=cur.fetchall()

            X=[]
            i=0
            for d in data:
                if d[2]==x:
                    X.append([d[1],d[4],d[5]])
                    i=1

            if i==0:
                print('No one has participated in your quiz yet!')
                return

            mycon.close()


            mycon=sqltor.connect(host=h,user=u,password=pwd, database=db)
            cur=mycon.cursor()
            cur.execute('select * from t2')
            data=cur.fetchall()
            a=0
            for d in data:
                for x in X:
                    if d[0]==x[0]:
                        a+=1
                        print('Participant name:',d[1],' Score:',x[1] , "Attempted on:" , x[2])
            print("Particpant(s) attempted the quiz ,", a, " time(s).")
            mycon.close()
        else:
            print('Inaccurate quiz ID entered')


#Mainstuff
print("Please wait :)")
print("*************************************************************************************")
print("                        WELCOME TO QUIZZERY!!!!!")
print("           This is a program that combines Quizzes and Queries (MySQL),")
print("                    and hence we named it, Quizzery!")
print("    This Project was made by Dyuthi Vivek and Prathyusha Purrigali of Grade 12 A, NPS RNR")
print("*************************************************************************************")
#initialstuff()
initialmenu()
```

OUTPUT

Creating new account

Please wait :)
****
**
                        WELCOME TO QUIZZERY!!!!!
           This is a program that combines Quizzes and Queries (MySQL),
                        and hence we named it, Quizzery!
      This Project was made by Dyuthi Vivek and Prathyusha Purrigali of Grade 12 A, NPS RNR
****
**
****
1. Sign Up
2. Log In
3. Quit
4. I need help, I would like to send a query
****
Enter choice: 1
Enter your username: Sakila
Enter your password: ··········
Confirm your password: ··········
Entered passwords do not match! Please try again.
Enter your password: ··········
Confirm your password: ··········
Don't forget your password! :)
Kindly log in with your new Username and Password!
****
1. Sign Up
2. Log In
3. Quit
4. I need help, I would like to send a query
****
Enter choice: 2
Enter your username: Sakila
Enter your password: ··········
Your password or username is incorrect!
****
1. Sign Up
2. Log In
3. Quit
4. I need help, I would like to send a query
****
Enter choice: 2
Enter your username: Sakila
Enter your password: ··········
You have now successfully logged in
****

Creating quiz

****
1. Create quiz

2. Attempt Quiz
3. Modify Quiz
4. View Your scores
5. View Your Quiz Participants' scores
6. Log out
7. I need help, I would like to send a query
****
Enter choice: 1
Enter the question What is the name of the dolphin on MySQL logo?
Enter option "a" Sasha
Enter option "b" Sakila
Enter option "c" Shakira
Enter option "d" Salmon
Enter the answer (a or b or c or d)b

Do you want to add another question? (y/n) y
Enter the question Who created Python?
Enter option "a" God
Enter option "b" Guido Van Rossum
Enter option "c" Cunningham
Enter option "d" Guinea Pig Possum
Enter the answer (a or b or c or d)b

Do you want to add another question? (y/n) y
Enter the question What are tables in Databases also called?
Enter option "a" Functions
Enter option "b" Index
Enter option "c" Relations
Enter option "d" Degree
Enter the answer (a or b or c or d)c

Do you want to add another question? (y/n)
Enter y or n only: n
Quiz has been successfully created
The quiz ID is 3

Attempting quiz
****
1. Create quiz
2. Attempt Quiz
3. Modify Quiz
4. View Your scores
5. View Your Quiz Participants' scores
6. Log out
7. I need help, I would like to send a query
****
Enter choice: 2
Enter quiz code: 3
1 . What is the name of the dolphin on MySQL logo?
a) Sasha b) Sakila c) Shakira d) Salmon
Enter answer: c
Wrong answer, answer was b

2 . Who created Python?
a) God b) Guido Van Rossum c) Cunningham d) Guinea Pig Possum
Enter answer: b
Correct answer

3 . What are tables in Databases also called?
a) Functions b) Index c) Relations d) Degree
Enter answer: c
Correct answer

Attempting a different quiz
****
1. Create quiz
2. Attempt Quiz
3. Modify Quiz
4. View Your scores
5. View Your Quiz Participants' scores
6. Log out
7. I need help, I would like to send a query
****
Enter choice: 2
Enter quiz code: 1
1 . Which country consumes the most chocolate per capita?
a) Switzerland b) United Kingdom c) France d) United States of America
Enter answer: d
Wrong answer, answer was a

2 . Who created Sherlock Holmes?
a) Enid Blyton b) Agatha Christie c) Arthur Conan Doyle d) P. G. Wodehouse
Enter answer: c
Correct answer

3 . What country has the most natural lakes?
a) Finland b) Canada c) India d) Russia
Enter answer: b
Correct answer

4 . A group of ravens is known as?
a) Murder b) Pride c) Parliament d) Unkindness
Enter answer: a
Wrong answer, answer was d

5 . Which city has the most diversity in terms of language?
a) Delhi b) Beijing c) New York d) San Francisco
Enter answer: c
Correct answer

Viewing scores
****
1. Create quiz
2. Attempt Quiz
3. Modify Quiz
4. View Your scores

5. View Your Quiz Participants' scores
6. Log out
7. I need help, I would like to send a query
****
Enter choice: 4
You have participated in the following quiz/quizzes:
Quiz ID: 3
Quiz ID: 1
Enter the quiz ID to view your score: 3
Your score is 2 Attempted on 2022-02-26 03:27:32
You attempted the quiz , 1 time(s).
****
1. Create quiz
2. Attempt Quiz
3. Modify Quiz
4. View Your scores
5. View Your Quiz Participants' scores
6. Log out
7. I need help, I would like to send a query
****
Enter choice: 4
You have participated in the following quiz/quizzes:
Quiz ID: 3
Quiz ID: 1
Enter the quiz ID to view your score: 1
Your score is 3 Attempted on 2022-02-26 03:31:39
You attempted the quiz , 1 time(s).

Attempting the same quiz again and viewing scores
****
1. Create quiz
2. Attempt Quiz
3. Modify Quiz
4. View Your scores
5. View Your Quiz Participants' scores
6. Log out
7. I need help, I would like to send a query
****
Enter choice: 2
Enter quiz code: 1
1 . Which country consumes the most chocolate per capita?
a) Switzerland b) United Kingdom c) France d) United States of America
Enter answer: a
Correct answer

2 . Who created Sherlock Holmes?
a) Enid Blyton b) Agatha Christie c) Arthur Conan Doyle d) P. G. Wodehouse
Enter answer: c
Correct answer

3 . What country has the most natural lakes?
a) Finland b) Canada c) India d) Russia
Enter answer: b
Correct answer

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4 . A group of ravens is known as?
a) Murder b) Pride c) Parliament d) Unkindness
Enter answer: d
Correct answer

5 . Which city has the most diversity in terms of language?
a) Delhi b) Beijing c) New York d) San Francisco
Enter answer: c
Correct answer

****
1. Create quiz
2. Attempt Quiz
3. Modify Quiz
4. View Your scores
5. View Your Quiz Participants' scores
6. Log out
7. I need help, I would like to send a query
****
Enter choice: 4
You have participated in the following quiz/quizzes:
Quiz ID: 3
Quiz ID: 1
Enter the quiz ID to view your score: 1
Your score is 3 Attempted on 2022-02-26 03:31:39
Your score is 5 Attempted on 2022-02-26 03:35:52
You attempted the quiz , 2 time(s).

Logging in from another account and viewing quiz participants score
****
1. Sign Up
2. Log In
3. Quit
4. I need help, I would like to send a query
****
Enter choice: 2
Enter your username: Dyuthi
Enter your password: ··········
You have now successfully logged in
****
1. Create quiz
2. Attempt Quiz
3. Modify Quiz
4. View Your scores
5. View Your Quiz Participants' scores
6. Log out
7. I need help, I would like to send a query
****
Enter choice: 4
You have not taken part in any quiz yet!
****
1. Create quiz
2. Attempt Quiz

3. Modify Quiz
4. View Your scores
5. View Your Quiz Participants' scores
6. Log out
7. I need help, I would like to send a query
****

Enter choice: 5
You have created the following quiz/quizzes:
Quiz ID: 1
Enter the quiz ID to view participant scores: 5
Inaccurate quiz ID entered
****

1. Create quiz
2. Attempt Quiz
3. Modify Quiz
4. View Your scores
5. View Your Quiz Participants' scores
6. Log out
7. I need help, I would like to send a query
****

Enter choice: 5
You have created the following quiz/quizzes:
Quiz ID: 1
Enter the quiz ID to view participant scores: 1
Participant name: Prathyusha Score: 2 Attempted on: 2022-02-26 03:39:11
Participant name: Sakila Score: 3 Attempted on: 2022-02-26 03:31:39
Participant name: Sakila Score: 5 Attempted on: 2022-02-26 03:35:52
Particpant(s) attempted the quiz , 3 time(s).

Modifying quiz – Adding, deleting and modifying questions
****

1. Create quiz
2. Attempt Quiz
3. Modify Quiz
4. View Your scores
5. View Your Quiz Participants' scores
6. Log out
7. I need help, I would like to send a query
****

Enter choice: 3
You have created the following quiz/quizzes:
Quiz ID: 3
Enter quiz id of quiz to be modified: 0
Enter an accurate quiz_id.
Enter quiz id of quiz to be modified: 3
The question(s) in this quiz are:

```
+-----------------+--------------------------------------------+----------+----------------+-----------+----------------+--------+
| Question number: |                Question                   |    a     |       b        |     c     |       d        | answer |
+-----------------+--------------------------------------------+----------+----------------+-----------+----------------+--------+
|      11      | What is the name of the dolphin on MySQL logo? |  Sasha   |     Sakila     |  Shakira  |     Salmon     |   b    |
|      12      |           Who created Python?              |   God    | Guido Van Rossum | Cunningham | Guinea Pig Possum |   b    |
|      13      |   What are tables in Databases also called? | Functions |     Index      | Relations |     Degree     |   c    |
+-----------------+--------------------------------------------+----------+----------------+-----------+----------------+--------+
```

What do you want to do?
1.Add new questions
2.Delete existing question
3.Modify existing question
4.I'm done modifying
Enter your choice (1 or 2 or 3 or 4) 1
Enter the question What is degree in MySQL?
Enter option "a" Number of Columns
Enter option "b" Number of Rows
Enter option "c" Number of Records
Enter option "d" Number of Constraints
Enter the answer (a or b or c or d)a

Do you want to add another question? (y/n) n
What do you want to do?
1.Add new questions
2.Delete existing question
3.Modify existing question
4.I'm done modifying
Enter your choice (1 or 2 or 3 or 4) 2

```
+-----------------+--------------------------------------------+----------------+----------------+----------------+-----------------------+--------+
| Question number: |                Question                   |       a        |       b        |       c        |           d           | answer |
+-----------------+--------------------------------------------+----------------+----------------+----------------+-----------------------+--------+
|      11      | What is the name of the dolphin on MySQL logo? |     Sasha      |     Sakila     |    Shakira     |        Salmon         |   b    |
|      12      |           Who created Python?              |      God       | Guido Van Rossum |   Cunningham   |   Guinea Pig Possum   |   b    |
|      13      |   What are tables in Databases also called? |   Functions    |     Index      |   Relations    |        Degree         |   c    |
|      14      |        What is degree in MySQL?           | Number of Columns | Number of Rows | Number of Records | Number of Constraints |   a    |
+-----------------+--------------------------------------------+----------------+----------------+----------------+-----------------------+--------+
```
Enter question number of question to be deleted: 12
Successfully deleted
Do you want to delete another question? (y/n)n
What do you want to do?
1.Add new questions
2.Delete existing question
3.Modify existing question

4.I'm done modifying
Enter your choice (1 or 2 or 3 or 4) 3

```
+-----------------+--------------------------------------------+-----------------+--------------+-----------------+----------------------+--------+
| Question number: |                Question                    |       a         |      b       |       c         |          d           | answer |
+-----------------+--------------------------------------------+-----------------+--------------+-----------------+----------------------+--------+
|     11          | What is the name of the dolphin on MySQL logo? |   Sasha     |   Sakila    |    Shakira    |      Salmon          |   b    |
|     13          |   What are tables in Databases also called? |   Functions  |   Index     |    Relations  |      Degree          |   c    |
|     14          |        What is degree in MySQL?            | Number of Columns | Number of Rows | Number of Records | Number of Constraints |   a    |
+-----------------+--------------------------------------------+-----------------+--------------+-----------------+----------------------+--------+
```

Enter question number of question to be modified: 14
Enter the question What is cardinality in MySQL?
Enter option "a" Number of Columns
Enter option "b" Number of Rows
Enter option "c" Number of Records
Enter option "d" Number of Constraints
Enter the answer (a or b or c or d)b

Do you want to modify another question? (y/n)n
What do you want to do?
1.Add new questions
2.Delete existing question
3.Modify existing question
4.I'm done modifying
Enter your choice (1 or 2 or 3 or 4) 4

MySQL tables:

```
mysql> select * from t2;
+---------+------------+----------+
| loginid | name       | password |
+---------+------------+----------+
|       1 | Dyuthi     | test     |
|       2 | Prathyusha | green    |
|       3 | Sakila     | lol      |
+---------+------------+----------+
3 rows in set (0.04 sec)
```

```
mysql> select * from t3;
+-------------+---------+--------------+----------------+-------+---------------------+
| some_number | loginid | participated | right_questions | score | tim                 |
+-------------+---------+--------------+----------------+-------+---------------------+
|           1 |       3 |            3 | [12, 13]       |     2 | 2022-02-26 03:27:32 |
|           2 |       3 |            1 | [2, 3, 5]      |     3 | 2022-02-26 03:31:39 |
|           3 |       3 |            1 | [1, 2, 3, 4, 5] |     5 | 2022-02-26 03:35:52 |
|           4 |       2 |            1 | [2, 4]         |     2 | 2022-02-26 03:39:11 |
|           5 |       3 |            2 | [7, 10]        |     2 | 2022-02-26 03:42:52 |
+-------------+---------+--------------+----------------+-------+---------------------+
5 rows in set (0.06 sec)
```

```
mysql> select * from t1;
+-------------+-----------------------------------------------------+------------------+----------------+------------------+--------------------------+--------+---------+---------+
| question_id | question                                            | a                | b              | c                | d                        | answer | quiz_id | loginid |
+-------------+-----------------------------------------------------+------------------+----------------+------------------+--------------------------+--------+---------+---------+
|           1 | Which country consumes the most chocolate per capita? | Switzerland      | United Kingdom | France           | United States of America | a      |       1 |       1 |
|           2 | Who created Sherlock Holmes?                        | Enid Blyton      | Agatha Christie | Arthur Conan Doyle | P. G. Wodehouse          | c      |       1 |       1 |
|           3 | What country has the most natural lakes?            | Finland          | Canada         | India            | Russia                   | b      |       1 |       1 |
|           4 | A group of ravens is known as?                      | Murder           | Pride          | Parliament       | Unkindness               | d      |       1 |       1 |
|           5 | Which city has the most diversity in terms of language? | Delhi        | Beijing        | New York         | San Francisco            | c      |       1 |       1 |
|           6 | What is cynophobia?                                 | Fear of birds    | Fear of cats   | Fear of dogs     | Fear of horses           | c      |       2 |       2 |
|           7 | The unicorn is the national animal of which country? | Sweden          | Switzerland    | Spain            | Scotland                 | d      |       2 |       2 |
|           8 | Which country invented ice cream?                   | Greece           | China          | Egypt            | Russia                   | b      |       2 |       2 |
|           9 | How long is New Zealand@s Ninety Mile Beach?        | 90 miles         | 99 miles       | 55 miles         | there is no such beach   | c      |       2 |       2 |
|          10 | What is the smallest country in the world?          | Maldives         | Vatican City   | San Marino       | Malta                    | b      |       2 |       2 |
|          11 | What is the name of the dolphin on MySQL logo?      | Sasha            | Sakila         | Shakira          | Salmon                   | b      |       3 |       3 |
|          13 | What are tables in Databases also called?           | Functions        | Index          | Relations        | Degree                   | c      |       3 |       3 |
|          14 | What is cardinality in MySQL?                       | Number of Columns | Number of Rows | Number of Records | Number of Constraints   | b      |       3 |       3 |
+-------------+-----------------------------------------------------+------------------+----------------+------------------+--------------------------+--------+---------+---------+
13 rows in set (0.06 sec)
```

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  - Gmeet
  - Gmail
  - Chat

TIME CHART

Report
10.0%

Research
15.0%

Programming
75.0%