**Quiz Application**

**Code –**

import pymysql

import csv

def get\_connection():

return pymysql.connect(

host="localhost",

user="root",

password="pass@word1",

database="quizdb"

)

def add\_quiz():

subject = input("Enter Subject: ")

total\_marks = int(input("Enter marks for each question: "))

num\_questions = int(input("Enter number of questions: "))

conn = get\_connection()

cursor = conn.cursor()

query = "INSERT INTO quizzes (subject, total\_marks, num\_questions) VALUES (%s, %s, %s)"

cursor.execute(query, (subject, total\_marks, num\_questions))

conn.commit()

quiz\_id = cursor.lastrowid

for i in range(num\_questions):

question = input(f"Enter question {i + 1}: ")

option\_1 = input(f"Enter option 1 for question {i + 1}: ")

option\_2 = input(f"Enter option 2 for question {i + 1}: ")

option\_3 = input(f"Enter option 3 for question {i + 1}: ")

option\_4 = input(f"Enter option 4 for question {i + 1}: ")

correct\_option = int(input(f"Enter the correct option number (1-4) for question {i + 1}: "))

query = """

INSERT INTO questions (quiz\_id, question, option\_1, option\_2, option\_3, option\_4, correct\_option)

VALUES (%s, %s, %s, %s, %s, %s, %s)

"""

cursor.execute(query, (quiz\_id, question, option\_1, option\_2, option\_3, option\_4, correct\_option))

conn.commit()

conn.close()

print(f"Quiz for {subject} added successfully!")

def view\_quiz():

conn = get\_connection()

cursor = conn.cursor()

cursor.execute("SELECT \* FROM quizzes")

quizzes = cursor.fetchall()

print("\n=== Quiz List ===")

if quizzes:

for quiz in quizzes:

print(f"ID: {quiz[0]}, Subject: {quiz[1]}, Marks per Question: {quiz[2]}, Total Questions: {quiz[3]}")

else:

print("No quizzes found!")

conn.close()

def update\_quiz():

quiz\_id = int(input("Enter quiz ID to update: "))

num\_extra\_questions = int(input("Enter the number of extra questions to add: "))

conn = get\_connection()

cursor = conn.cursor()

cursor.execute("SELECT \* FROM quizzes WHERE id=%s", (quiz\_id,))

quiz = cursor.fetchone()

if quiz:

for i in range(num\_extra\_questions):

question = input(f"Enter extra question {i + 1}: ")

option\_1 = input(f"Enter option 1 for extra question {i + 1}: ")

option\_2 = input(f"Enter option 2 for extra question {i + 1}: ")

option\_3 = input(f"Enter option 3 for extra question {i + 1}: ")

option\_4 = input(f"Enter option 4 for extra question {i + 1}: ")

correct\_option = int(input(f"Enter the correct option number (1-4) for extra question {i + 1}: "))

query = """

INSERT INTO questions (quiz\_id, question, option\_1, option\_2, option\_3, option\_4, correct\_option)

VALUES (%s, %s, %s, %s, %s, %s, %s)

"""

cursor.execute(query, (quiz\_id, question, option\_1, option\_2, option\_3, option\_4, correct\_option))

conn.commit()

print("Extra questions added successfully!")

else:

print("Quiz not found!")

conn.close()

def delete\_quiz():

quiz\_id = int(input("Enter quiz ID to delete: "))

conn = get\_connection()

cursor = conn.cursor()

cursor.execute("DELETE FROM questions WHERE quiz\_id=%s", (quiz\_id,))

conn.commit()

cursor.execute("DELETE FROM quizzes WHERE id=%s", (quiz\_id,))

conn.commit()

conn.close()

print("Quiz deleted successfully!")

def export\_quiz():

conn = get\_connection()

cursor = conn.cursor()

cursor.execute("SELECT \* FROM quizzes")

quizzes = cursor.fetchall()

with open("quizzes.csv", "w", newline="") as file:

writer = csv.writer(file)

writer.writerow(["ID", "Subject", "Marks per Question", "Total Questions"])

for quiz in quizzes:

writer.writerow(quiz)

conn.close()

print("Quizzes exported to quizzes.csv!")

def search\_quiz():

print("\nSearch Quiz By:")

print("1. Quiz ID")

print("2. Subject")

choice = input("Enter your choice (1/2): ")

conn = get\_connection()

cursor = conn.cursor()

if choice == "1":

quiz\_id = int(input("Enter quiz ID: "))

query = "SELECT \* FROM quizzes WHERE id = %s"

cursor.execute(query, (quiz\_id,))

quiz = cursor.fetchone()

if quiz:

print("\n=== Quiz Found ===")

print(f"ID: {quiz[0]}, Subject: {quiz[1]}, Marks per Question: {quiz[2]}, Total Questions: {quiz[3]}")

cursor.execute("SELECT \* FROM questions WHERE quiz\_id = %s", (quiz\_id,))

questions = cursor.fetchall()

print("\n=== Questions ===")

for question in questions:

print(f"Q: {question[2]}")

print(f"1. {question[3]}")

print(f"2. {question[4]}")

print(f"3. {question[5]}")

print(f"4. {question[6]}")

print(f"Correct Option: {question[7]}")

else:

print("No quiz found with that ID.")

elif choice == "2":

subject = input("Enter subject to search: ")

query = "SELECT \* FROM quizzes WHERE subject LIKE %s"

cursor.execute(query, (f"%{subject}%",))

quizzes = cursor.fetchall()

if quizzes:

print("\n=== Quizzes Found ===")

for quiz in quizzes:

print(f"ID: {quiz[0]}, Subject: {quiz[1]}, Marks per Question: {quiz[2]}, Total Questions: {quiz[3]}")

cursor.execute("SELECT \* FROM questions WHERE quiz\_id = %s", (quiz[0],))

questions = cursor.fetchall()

print("\n=== Questions ===")

for question in questions:

print(f"Q: {question[2]}")

print(f"1. {question[3]}")

print(f"2. {question[4]}")

print(f"3. {question[5]}")

print(f"4. {question[6]}")

print(f"Correct Option: {question[7]}")

else:

print("No quizzes found with that subject.")

else:

print("Invalid choice! Please try again.")

conn.close()

def main\_menu():

while True:

print("\n=== QUIZ MANAGEMENT SYSTEM ===")

print("1. Add Quiz")

print("2. View Quizzes")

print("3. Update Quiz")

print("4. Delete Quiz")

print("5. Search Quiz")

print("6. Export Quizzes")

print("7. Exit")

choice = input("Enter your choice: ")

if choice == "1":

add\_quiz()

elif choice == "2":

view\_quiz()

elif choice == "3":

update\_quiz()

elif choice == "4":

delete\_quiz()

elif choice == "5":

search\_quiz()

elif choice == "6":

export\_quiz()

elif choice == "7":

print("Exiting... Goodbye!")

break

else:

print("Invalid choice! Please try again.")

if \_\_name\_\_ == "\_\_main\_\_":

main\_menu()

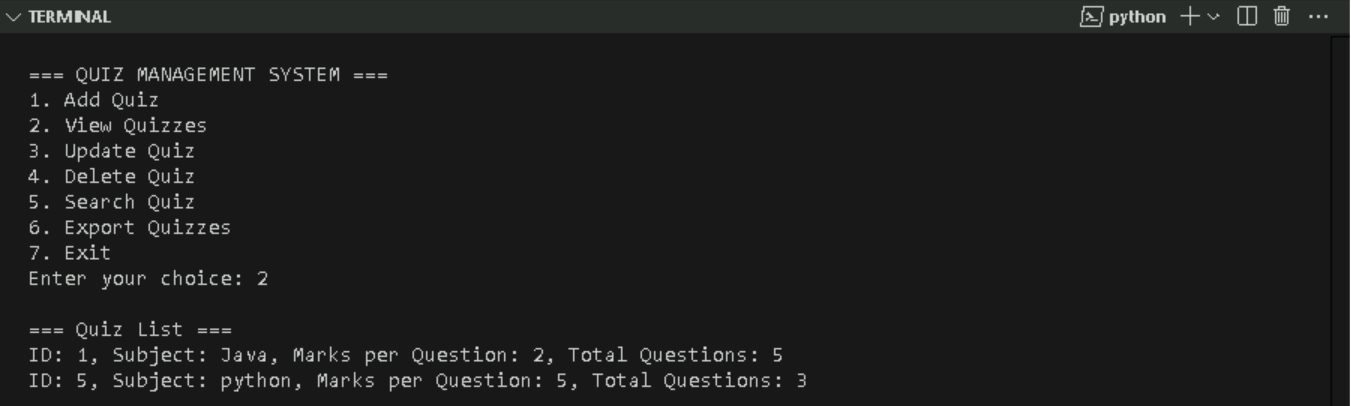
**Output :**

1. Add Quiz -

A screenshot of a computer program

AI-generated content may be incorrect.

1. View Quiz



1. Update Quiz

A computer screen with white text

AI-generated content may be incorrect.

1. Delete Quiz

A black rectangle with white text

AI-generated content may be incorrect.

5. Search Quiz A black screen with white text

AI-generated content may be incorrect.

1. Export Quiz - A screenshot of a computer

   AI-generated content may be incorrect.