GRADE 12 : PRACTICAL 21

'''WAP using Python-MySQL connectivity to connect to the Database DB21 that contains Table ACTIVITY as shown :

PS. - THE BELOW SHOULD BE CREATED BY YOU IN MYSQL & THE TABLE CAN BE STUCK ALONGSIDE OR BELOW , INSTEAD OF WRITING IT OUT

TABLE : ACTIVITY

ACODE	ANAME	STADIUM	NO	PRIZE	SCHEDULE_DATE
1001	RELAY 100M	STAR ANNEX	16	10000	2004-01-23
1002	HIGH JUMP	STAR ANNEX	10	12000	2003-12-12
1003	SHOTPUT	SUPER POWER	12	8000	2004-02-14
1005	LONG JUMP	STAR ANNEX	12	9000	2004-01-01
1008	DISCUS THROW	SUPER POWER	10	15000	2004-03-19

Your task is to :

1.DISPLAY THE ACTIVITIES THAT ARE SCHEDULED AT A STADIUM ACCEPTED BY THE USER. ALSO DISPLAY TOTAL NUMBER OF ACTIVITIES AT THIS STADIUM

2.INSERT A RECORD INTO THE TABLE

3.UPDATE NO. OF PARTICIPANTS AFTER ACCEPTING THE ACTIVITY NAME

4.DELETE DATA AFTER ACCEPTING ACTIVITY CODE FROM USER

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#Initial Connection
import mysql.connector as ctr
con = ctr.connect(host='localhost', user='root',
                  password='123456', db='DB21')
if(con.is_connected()):
    print("Connected\n")
cur = con.cursor()

#1.DISPLAY THE ACTIVITIES THAT ARE SCHEDULED AT A STADIUM ACCEPTED BY
#THE USER. ALSO DISPLAY TOTAL NUMBER OF ACTIVITIES AT THIS STADIUM
st=input("Enter the stadium name : ")
cur.execute('select * from activity where stadium =%s',(st,))
data=cur.fetchall()
for i in data:
    print(*i,sep='\t')
print(f"Number of records in {st} stadium :",cur.rowcount)
print()
cur.reset()

#2.INSERT A RECORD INTO THE TABLE
acode = int(input("Enter Activity Code (ACODE): "))
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aname = input("Enter Activity Name (ANAME): ")
st = input("Enter Stadium Name: ")
no = int(input("Enter Number of Participants (NO): "))
prize = int(input("Enter Prize Amount: "))
date = input("Enter Schedule Date (YYYY-MM-DD): ")
cur.execute("""INSERT INTO ACTIVITY(ACODE, ANAME, STADIUM,
NO, PRIZE, SCHEDULE_DATE) VALUES (%s, %s, %s, %s, %s, %s)""",
            (acode, aname, st, no, prize, date))
con.commit()
print("Record inserted successfully.\n")

# 3. UPDATE NO. OF PARTICIPANTS AFTER ACCEPTING THE ACTIVITY NAME
aname = input("Enter the Activity Name to update: ")
no = int(input("Enter the new Number of Participants: "))
cur.execute("UPDATE ACTIVITY SET NO = %s WHERE ANAME = %s",
            (no, aname))
con.commit()
if cur.rowcount > 0:
    print(f"Updated participants successfully. \n")
else:
    print(f"No activity found with name '{aname}'.\n")

# 4. DELETE DATA AFTER ACCEPTING ACTIVITY CODE FROM USER
acode = int(input("Enter the Activity Code to delete: "))
cur.execute("DELETE FROM ACTIVITY WHERE ACODE = %s",(acode,))
con.commit()
if cur.rowcount > 0:
    print(f"Record deleted successfully.\n")
else:
    print(f"No record found with ACODE {acode}.\n")

# Clean up resources
cur.close()
con.close()
```