INDEX

TOURNAMENT MANAGEMENT

03.03.2021

—Team 2

Class XII A1,
Velammanl Vidyalaya,

OVERVIEW:

This Tournament management project is mainly used for organising and administering tournaments organised using computers with Python and Database (MySQL). This makes manipulating and storing tournament records easier

NEED FOR COMPUTERISATION:

In this day man work is not mandatory , all the work needs to be done fast in this competitive world . So which made Computerisation a necessary task in our daily life.

- accuracy and speed
- simple and integrated
- instant reporting
- security
- reliability
- quick decision making
- scalability

REQUIRED SPECIFICATIONS:

Operating System: WIndows, Mac, Linux based OSs.

RAM: 2GB or above

CPU: Intel i3 or AMD a9 and above

Software requirements:

- ❄ Python v3.8.7
- ❄ MySQL Community v8.0
- ❄ Custom PyPI packages

ADVANTAGES OF TOURNAMENT MANAGEMENT:

❄ Computerising Tournament management is necessary because it is saving lot’s and lots of time for humans

❄The record stored in database will be so secure and the accessibility of the data will be faster than the manual records

❄The accounts prepared with the use of computerized accounting system are usually uniform, neat, accurate, and more legible than a manual job

❄It provide transparency , so that any malpractices can be avoided

❄By computerising ,it makes the tournament more attractive and it will attract more crowd to watch the tournament

LIMITATIONS OF TOURNAMENT MANAGEMENT:

❄Once if a mistake is done , it can not be changed

❄only 5 teams can be given as input

❄The data can’t be stored in online for future purpose

❄The data can’t be accessed after the tournament has completed

❄Match making in odd number

SOURCE CODE:

```
import mysql.connector
from pyfiglet import Figlet
from tabulate import tabulate


mydb=mysql.connector.connect(host="localhost",user="root",pass
wd="29@2004@sriram")
c=mydb.cursor()
c.execute('drop database if exists tournament')
def fun():
    c.execute("CREATE DATABASE IF NOT EXISTS tournament")
    c.execute('use tournament')


    c.execute('create table if not exists tour(S_NO int primary key,\
            team_name varchar(30),\
            represented_school varchar(30),\
            location varchar(20),\
            player_1 varchar(20),\
            player_2 varchar(20),\
```

```
            player_3 varchar(20),\
            player_4 varchar(20),\
            player_5 varchar(20),\
            age varchar(10),\
            score int)')

    c.execute('create table if not exists duplicate(S_NO int primary
key,\
    team_name varchar(30),\
    represented_school varchar(30),\
    location varchar(20),\
    player_1 varchar(20),\
    player_2 varchar(20),\
    player_3 varchar(20),\
    player_4 varchar(20),\
    player_5 varchar(20),\
    age varchar(10),\
    score int)')

def start():
```

```
    c.execute('use tournament')
    m=input('''enter 'm' if you want to access management part
enter 'v' if you want to access viewer mode : ''')
    print('')
    if m.lower()=='m':
        pw=input('enter the password to confrim that you are from
managent : ')
        print('')
        if pw=='123':
            n=int(input('enter the number of teams participating : '))
            print('')
            list1=[]

            for i in range(1,n+1):
                team=input('enter the team name : ')
                represented_school=input('enter the school name which
the team is representing : ')
                location=input('enter the location of the school : ')
                player_1=input('enter the player 1 name : ')
                player_2=input('enter the player 2 name : ')
                player_3=input('enter the player 3 name : ')
```

```
            player_4=input('enter the player 4 name : ')
            player_5=input('enter the player 5 name : ')
            age=input('enter the age category of the team : ')
            score_val=int(input('enter the score of each teams : '))
            print('')
            c.execute("insert into tour
values(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)",(i,team,represented_s
chool,location,player_1,player_2,player_3,player_4,player_5,age,scor
e_val))

        mydb.commit()
        def fun():
            s=int(input('''enter 1 for displaying the content
enter 2 for altering the table
enter 3 to update the values in table
enter 4 to delete the row in the table : '''))
            if s==1:
                c.execute('select*from tour')
                for i in c:
                        print(i)
            elif s==2:
```

```
                n2=input("enter in which attribute , the change need to be done:\nteam_name\nrepresented_school\nlocation : ")

                if n2=='team_name':

                    q=int(input("enter 1 to increase the range\nenter 2 to change the name of the table : "))

                    if q==1:
                        c.execute('alter table tour modify team_name varchar(40)')

                    elif q==2:
                        nf=input('enter the new name of the table : ')

                        print('nf in q2 of team name : ')

                        c.execute(f'alter table tour rename column team_name to {nf}')
```

```
                print('comment executed on team')


            elif n2=='represented_school':
                q=int(input('enter 1 to increase the range\nenter 2 to change the name of the table : '))

                if q==1:
                    c.execute('alter table tour modify represented_school varchar(40)')

                elif q==2:
                    nf=input('enter the new name of the table : ')
                    c.execute(f'alter table tour rename column "represented_school" to {nf}')

            elif n2=='location':
                print('entered the location : ')

                q=int(input('enter 1 to increase the range\nenter 2 to change the name of the table : '))
```

```
                    if q==1:
                        c.execute('alter table tour modify team_name
varchar(30)')



                    elif q==2:
                        nf=input('enter the new name of the table : ')
                        c.execute(f'alter table tour rename column
"location" to {nf}')


                elif s==3:
                    Recid = int(input("Enter the Record's S_No : "))
                    colname = input('''enter the column name , in which
the updade need to be done :
column name:player_1
            player_2
            player_3
            player_4
            player_5 : ''')
```

```
                dict = {"player1" : ("player_1" ,"1" ,"player 1" ,"pla 1") ,
                 "player2" :("player_2","2" ,"player 2" ,"pla 2") ,
                 'player3' : ('player_3','3','player 3','pla 3') ,
                  "player4" :("player_4" ,"4" ,"player 4" ,"pla 4") ,
                  'player5' : ('player_5','5','player 5','pla 5'),
                  'score_val':('score','val','scr')}

                for i in list(dict.values()) :
                    if colname in i:
                        change = input('Enter the value to be changed : ')
                        c.execute("update tour set " + i[0] + " = %s where
S_NO = %s" ,(change ,Recid))

                        break

            elif  s==4:
                deleted_row=int(input('enter the row number to
delete the team from the list : '))
```

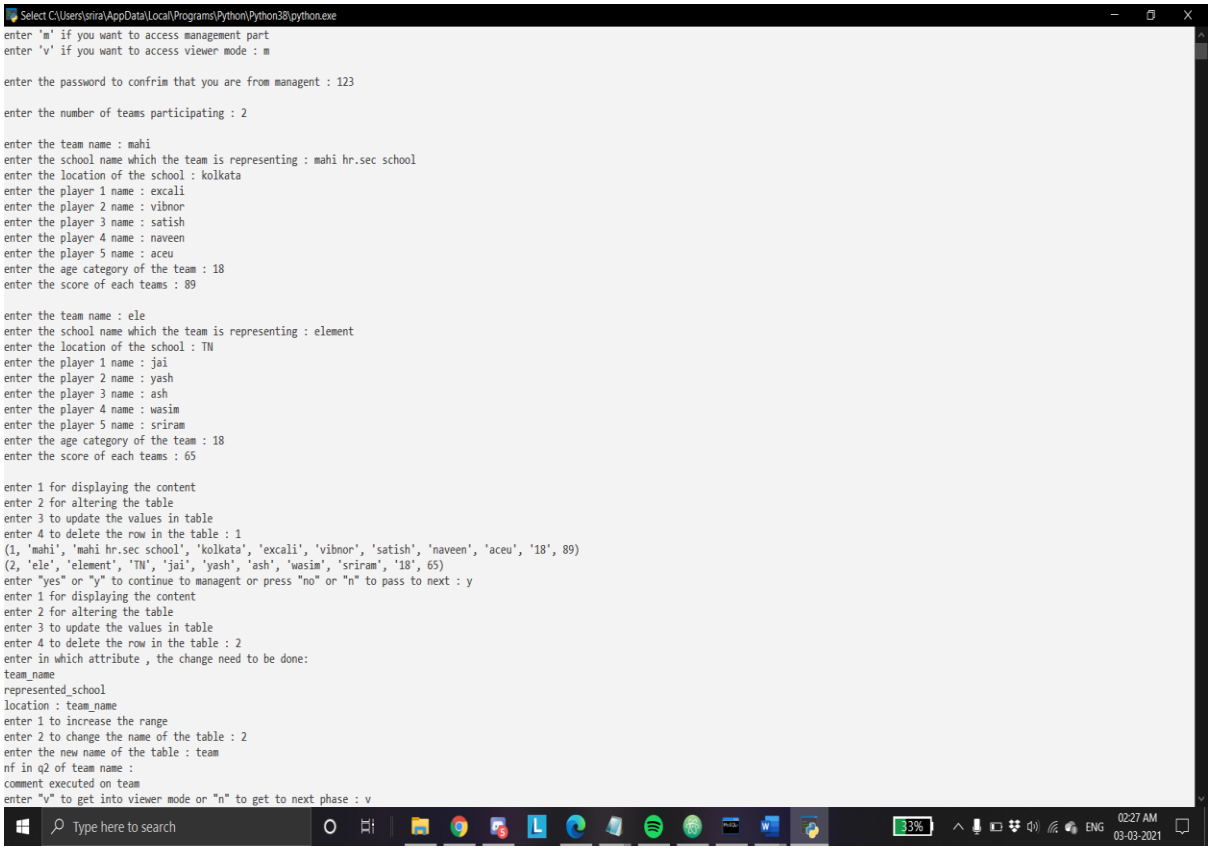
```
                    c.execute("delete from tour where S_NO=
'{}'".format(deleted_row))



                    print('job done')


                else:
                    print('the enterd value is wrong!Please check the value
you have entered')
            fun()
    elif m.lower()=='v':
        def viewer():
            c.execute('use tournament')
            c.execute('select*from tour')
            for i in c:
                print(i)


    else:
        print("not a valid value , please check the variable you have
entered")
        v=input('press yes if you want to continue : ')
```

```
        if v.lower()=='yes' or v.lower()=='y':
            start()
    mydb.commit()


    while True:
        w=input('enter "yes" or "y" to continue to managent or press "no" or "n" to pass to next : ')
        if w.lower() in 'yes':
            fun()
        else:
            print('you will be in next phase')
            break
    p=input('enter "v" to get into viewer mode or "n" to get to next phase : ')
    if p=='v':
        viewer()
def managment():


    c.execute('select max(score) from tour')
```

```
    for i in c:
        print('the maximum score is : ',i[0])


    mydb.commit()


fun()
start()
managment()
l=input('enter "yes" if you want to view main table : ')
print('')
if l.lower()=='yes' or l.lower()=='y':
    c.execute('select*from tour')
    for i in c:
        print(i)
    print('')
    c.execute('select*from duplicate')
    for i in c:
        print(i)
    print('')
l=input('enter "completed" or "comp" to delete the tables in the
database : ')
```

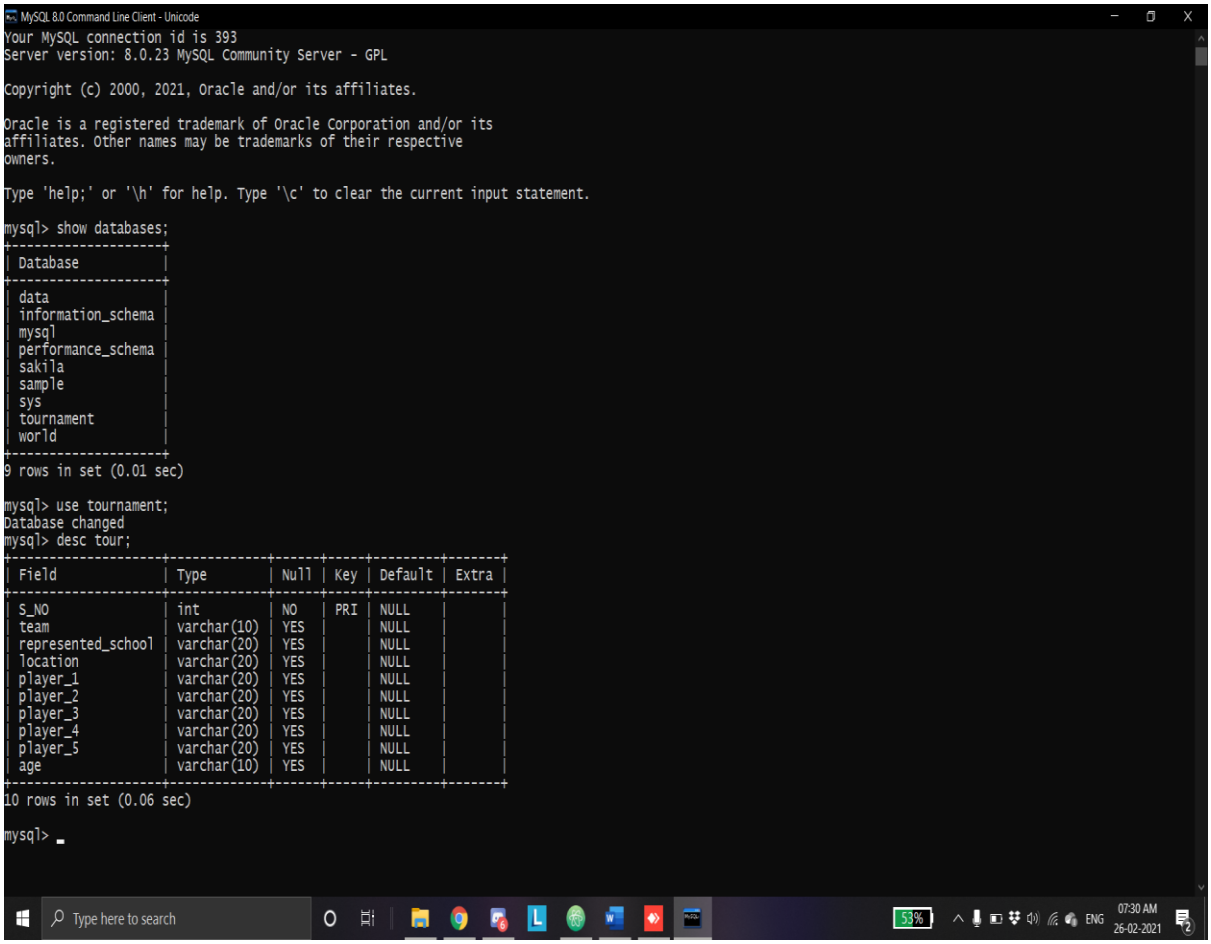
```
if l.lower() in 'completed':
    c.execute('delete from tour')
    c.execute('delete from duplicate')
mydb.commit()

figlet=Figlet(font='slant')
print(figlet.renderText('THANKS FOR JOINING THE TOURNAMENT '))
```

OUTPUT:


Select C:\Users\srira\AppData\Local\Programs\Python\Python38\python.exe
enter 'm' if you want to access management part
enter 'v' if you want to access viewer mode : m
enter the password to confrim that you are from managent : 123
enter the number of teams participating : 2
enter the team name : mahi
enter the school name which the team is representing : mahi hr.sec school
enter the location of the school : kolkata
enter the player 1 name : excali
enter the player 2 name : vibnor
enter the player 3 name : satish
enter the player 4 name : naveen
enter the player 5 name : aceu
enter the age category of the team : 18
enter the score of each teams : 89
enter the team name : ele
enter the school name which the team is representing : element
enter the location of the school : TN
enter the player 1 name : jai
enter the player 2 name : yash
enter the player 3 name : ash
enter the player 4 name : wasim
enter the player 5 name : sriram
enter the age category of the team : 18
enter the score of each teams : 65
enter 1 for displaying the content
enter 2 for altering the table
enter 3 to update the values in table
enter 4 to delete the row in the table : 1
(1, 'mahi', 'mahi hr.sec school', 'kolkata', 'excali', 'vibnor', 'satish', 'naveen', 'aceu', '18', 89)
(2, 'ele', 'element', 'TN', 'jai', 'yash', 'ash', 'wasim', 'sriram', '18', 65)
enter "yes" or "y" to continue to managent or press "no" or "n" to pass to next : y
enter 1 for displaying the content
enter 2 for altering the table
enter 3 to update the values in table
enter 4 to delete the row in the table : 2
enter in which attribute , the change need to be done:
team_name
represented_school
location : team_name
enter 1 to increase the range
enter 2 to change the name of the table : 2
enter the new name of the table : team
nf in q2 of team name :
comment executed on team
enter "v" to get into viewer mode or "n" to get to next phase : v
Type here to search
33%
ENG
02:27 AM
03-03-2021


Select C:\Users\srira\AppData\Local\Programs\Python\Python38\python.exe
enter the score of each teams : 65
enter 1 for displaying the content
enter 2 for altering the table
enter 3 to update the values in table
enter 4 to delete the row in the table : 1
(1, 'mahi', 'mahi hr.sec school', 'kolkata', 'excali', 'vibnor', 'satish', 'naveen', 'aceu', '18', 89)
(2, 'ele', 'element', 'TN', 'jai', 'yash', 'ash', 'wasim', 'sriram', '18', 65)
enter "yes" or "y" to continue to managent or press "no" or "n" to pass to next : y
enter 1 for displaying the content
enter 2 for altering the table
enter 3 to update the values in table
enter 4 to delete the row in the table : 2
enter in which attribute , the change need to be done:
team_name
represented_school
location : team_name
enter 1 to increase the range
enter 2 to change the name of the table : 2
enter the new name of the table : team
nf in q2 of team name :
comment executed on team
enter "v" to get into viewer mode or "n" to get to next phase : v
enter 'm' if you want to access management part
enter 'v' if you want to access viewer mode : v
(1, 'mahi', 'mahi hr.sec school', 'kolkata', 'excali', 'vibnor', 'satish', 'naveen', 'aceu', '18', 89)
(2, 'ele', 'element', 'TN', 'jai', 'yash', 'ash', 'wasim', 'sriram', '18', 65)
enter "yes" or "y" to continue to managent or press "no" or "n" to pass to next : n
you will be in next phase
enter "v" to get into viewer mode or "n" to get to next phase : n
the maximum score is : 89
enter "yes" if you want to view main table : y
(1, 'mahi', 'mahi hr.sec school', 'kolkata', 'excali', 'vibnor', 'satish', 'naveen', 'aceu', '18', 89)
(2, 'ele', 'element', 'TN', 'jai', 'yash', 'ash', 'wasim', 'sriram', '18', 65)
enter "completed" or "comp" to delete the tables in the database : c
Process returned 0 (0x0) execution time : 205.979 s
Press any key to continue . . .
Type here to search
33%
ENG
02:28 AM
03-03-2021

SQL OUTPUT:


MySQL 8.0 Command Line Client - Unicode
Your MySQL connection id is 393
Server version: 8.0.23 MySQL Community Server - GPL
Copyright (c) 2000, 2021, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
+--------------------+
| Database |
+--------------------+
| data |
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sample |
| sys |
| tournament |
| world |
+--------------------+
9 rows in set (0.01 sec)
mysql> use tournament;
Database changed
mysql> desc tour;
+--------------------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+--------------------+-------------+------+-----+---------+-------+
S_NO	int	NO	PRI	NULL	
team	varchar(10)	YES		NULL	
represented_school	varchar(20)	YES		NULL	
location	varchar(20)	YES		NULL	
player_1	varchar(20)	YES		NULL	
player_2	varchar(20)	YES		NULL	
player_3	varchar(20)	YES		NULL	
player_4	varchar(20)	YES		NULL	
player_5	varchar(20)	YES		NULL	
age	varchar(10)	YES		NULL	
+--------------------+-------------+------+-----+---------+-------+
10 rows in set (0.06 sec)
mysql>
Type here to search
53%
ENG
07:30 AM
26-02-2021

FUTURE ENHANCEMENT:

❄Number of teams will be decided by the user

❄Match making for all number (both even and odd)

❄all matches data will be stored even after the tournament has completed

BIBLIOGRAPHY:

❄stackoverflow

❄w3school

❄mysql related websites

❄sumita arora