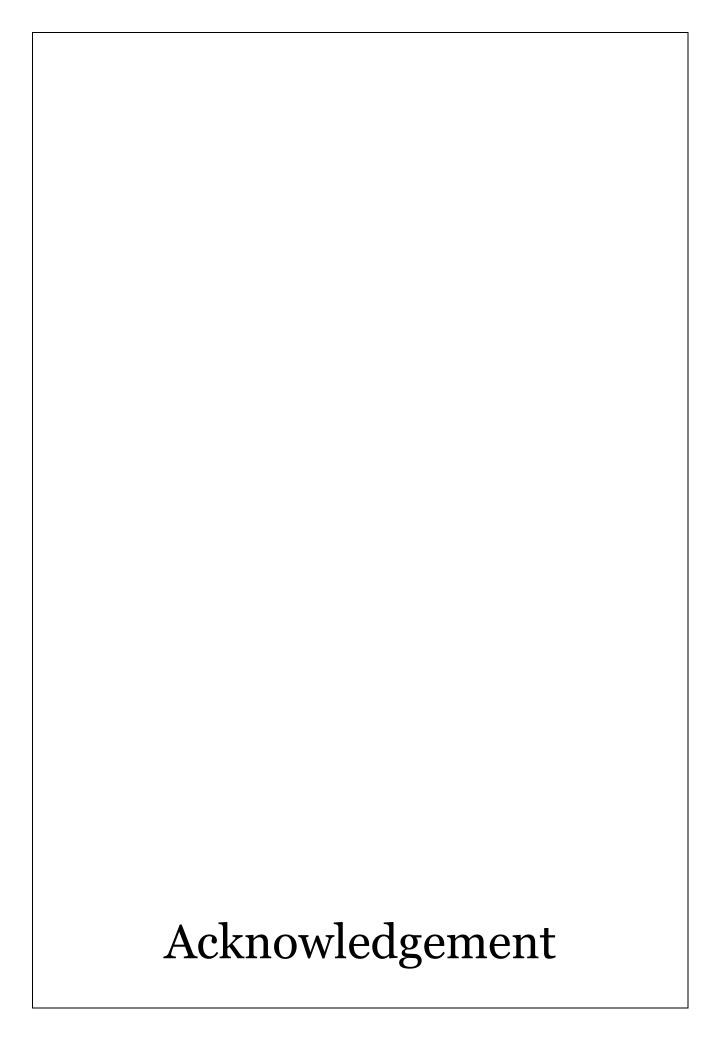
CBSE Computer Science Project



Blockbuster: Database Management system for movies

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I would like to express my gratitude towards my Computer Science Teacher, Mrs. Shruti Mehta for her valuable guidance, I would also like to thank our Principal Ms. Neera Pandey and the School Management for providing me the opportunity to work on this project.

I am grateful to my parents and my brother for their consistent support which made this project successful. Lastly, I would like to extend thanks to my classmates who helped me during the making of this project.

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Story behind the name

Blockbuster was a business founded by David Cook in 1985 as a single home video rental shop. As the company saw growth it became a public store chain featuring video game rentals, DVD-by-mail, streaming, video on demand and cinema theater.

Poor leadership and the residual effects of the Great Recession were major factors leading to Blockbuster's decline. The competition from Netflix's mail order service and Redbox automated kiosks ultimately led to the company filing for bankruptcy in 2010.

In 2011, its remaining 1700 stores were bought by Dish Network, a satellite television provider. By 2014, the last 300 company-owned stores were closed.

Dish retained a small number of franchise agreements, enabling some privately owned franchises to remain open irrespective of the termination of the corporate support for the brand.

Following a series of further closures in 2019, only one franchise store remains open in Bend, Oregon, United States.





The Last Blockbuster, Bend, Oregon, USA

Purpose of the project

I decided to create this project so that I would be able to maintain a database for movies which allowed me to store information pertaining to the movie and let me access it easily.

Although such services are already available, creating this project also helped learn about working with user interfaces while using Tkinter to create the UI for my project.

Creating this project also helped me become more familiar with Python and its connectivity with MySQL.

Requirements

1. Hardware requirements:

Component	Minimum	Recommended		
Processor	Dual-core CPU	Quad-core CPU or better		
RAM	2 GB	4 GB or higher		
Storage	2 GB free space	10 GB or more		
Operating System	Windows 7/Linux/macOS	Latest OS version		

2. Software requirements:

Python Version 3.13

Tkinter Version 8.6

MySQL Command line client Version 8.0

Implementation

1. Attributes used:

Movie Name

Genre

Date of Release

IMDBID

Director

Rating

Watched it

2. Features available:

Insert records

Update a record using name or IMDB ID of the movie

Delete a record using name or IMDB ID of the movie

Check availability of a record using name or IMDB ID of the movie

Display all the records available Exit the applet

```
Source code:
3.
1. #Importing required libraries
2. import tkinter as tk
3. from tkinter import StringVar
4. from tkinter import messagebox
5. import mysql.connector as sq
6.
7.
8. #Creating the database movie_database and a table inside it
  called Movies
9. def create():
10.
       mydb =
  sq.connect(host="localhost",user="root",password="root")
11.
       mycursor = mydb.cursor()
12.
       sql = "Create database movie database"
13.
       mycursor.execute(sql)
       mycursor.execute("Use movie database")
14.
15.
       mvdb.commit()
       mycursor.execute("Create table Movies (Movie Name
16.
  VARCHAR(500), Genre VARCHAR(100), date of release DATE, IMDB id
  INTEGER, Director VARCHAR (500), Rating VARCHAR (500), Watched it
  VARCHAR(5))")
       mydb.commit()
17.
18.
19. #Checking the existence of the database and creating it if the
  database does not exist
20.def check_database_existence():
21.
       try:
22.
           mvdb =
  sq.connect(host="localhost",user="root",password="root",databas
  e="movie database")
23.
       except sq.Error as e:
           if e.errno == 1049: #1049 is the MySQL error code for
24.
   "Unknown database"
25.
               create()
26.
           else:
27.
               print("Error: {e}")
28.check database existence()
29.
30. #Re-opening the menu window whenever the close button is
  clicked.
31.def recreate root():
32.
       global root
33.
       root=tk.Tk()
       root.geometry('690x350')
34.
```

```
root.configure(bg='#42c8f5')
35.
36.
       root.title('Menu')
37.
       lab3=tk.Label(root, text="WELCOME TO BLOCKBUSTER: A Movie
  Database",font=('Cascadia Mono
  SemiLight', 16, 'bold'), bg='#42c8f5')
       lab6=tk.Label(root, text="Made By: Atharava
38.
  Srivastava",font=('Cascadia Mono
  SemiLight',16,'bold'),bg='#42c8f5')
39.
       lab3.pack()
40.
       lab6.pack()
41.
42.
       lin1=tk.Label(root,text="1.Insert new
  records", font=('Cascadia Mono SemiLight', 14), bg='#42c8f5')
43.
       lin2=tk.Label(root,text="2.Update a
  record",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
       lin3=tk.Label(root,text="3.Delete a
44.
  record",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
       lin4=tk.Label(root,text="4.Search a
45.
  record",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
       lin5=tk.Label(root,text="5.Display the
46.
  data",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
       lin6=tk.Label(root,text="6.Quit",font=('Cascadia Mono
47.
  SemiLight', 14), bg='#42c8f5')
48.
49.
       lin1.place(x=10,y=80)
50.
       lin2.place(x=10,y=110)
51.
       lin3.place(x=10,y=140)
52.
       lin4.place(x=10,y=170)
53.
       lin5.place(x=10,y=200)
       lin6.place(x=10,y=230)
54.
55.
56.
       ch=StringVar()
57.
       lab1=tk.Label(root,text="Which function do you want to
58.
  apply?:",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
       lab1.place(x=10, y=260)
59.
60.
       en1=tk.Entry(root, textvariable=ch, font=('Cascadia Mono
61.
  SemiLight',14))
       en1.place(x=420, y=263)
62 .
63.
       #Function to ask for confirmation from user if quiting
64.
65.
       def on closing():
                if messagebox.askyesno(title='QUIT?',message='Are
66.
  you sure you want to quit'):
67.
                    root.destroy()
68.
               else:
```

```
69.
                    pass
70.
71.
       #Function to accept the choice from user of menu items
       def choicefunc(event=None):
72.
73.
            choice=ch.get()
           #To insert new records
74.
75.
            if choice=='1':
76.
                insert()
77.
           #To update a record
78.
           elif choice=='2':
79.
                update()
80.
           #To delete a record
           elif choice=='3':
81.
82.
                delete()
83.
           #To search a record
           elif choice=='4':
84.
85.
                search()
           #To display the data
86.
           elif choice=='5':
87.
88.
                display()
89.
           #To exit the program
           elif choice=='6':
90.
                exit =tk.Tk()
91.
92.
                exit .geometry('500x100')
                exit .config(bg='#42c8f5')
93.
94.
                exit .title('Exit')
                label_0=tk.Label(exit_, text="Thank
95.
  You!", font=('Cascadia Mono SemiLight', 16, 'bold'), bg='#42c8f5')
                label 1=tk.Label(exit , text="Hope you have a nice
96.
  day!",font=('Cascadia Mono SemiLight',16,'bold'),bg='#42c8f5')
97.
                label 0.pack()
98.
                label 1.pack()
99.
                root.destroy()
                 #Invaild input
100.
101.
                 else:
102.
                     lab2=tk.Label(root,text="Please Enter Valid
  Input!", font=('Cascadia Mono SemiLight', 15), bg='#42c8f5')
103.
                     lab2.place(x=170, y=300)
104.
                     ch.set('')
105.
106.
             en1.bind ('<Return>',choicefunc)
107.
108.
             #Recreating the option window
109.
             root.mainloop()
110.
111.
        #Function for inserting data
112.
```

```
113.
        def insert():
114.
            #Closing menu window
115.
            root.destroy()
116.
117.
            #Creating window to insert data
118.
119.
            insertk=tk.Tk()
120.
            insertk.geometry('850x400')
121.
            insertk.configure(bg='#42c8f5')
122.
            insertk.title('Insert Record')
123.
124.
            #Creating labels
            lab0=tk.Label(insertk,text='Fill out the below
125.
  information',bg='#42c8f5',font=('Cascadia Mono
  SemiLight',18,'bold'))
            lab1=tk.Label(insertk,text="Name of the Movie
126.
  :",bg='#42c8f5',font=('Cascadia Mono SemiLight',14))
            lab2=tk.Label(insertk,text="Genre of the
127.
  Movie:",bg='#42c8f5',font=('Cascadia Mono SemiLight',14))
            lab3=tk.Label(insertk,text="Date of Releae of the
128.
  Movie (in YYYY-MM-DD format): ", bg='#42c8f5', font=('Cascadia
  Mono SemiLight', 14))
            lab4=tk.Label(insertk,text="IMDB
129.
  ID:",bg='#42c8f5',font=('Cascadia Mono SemiLight',14))
130.
            lab5=tk.Label(insertk,text="Movie
  Director:",bg='#42c8f5',font=('Cascadia Mono SemiLight',14))
            lab6=tk.Label(insertk,text="IMDB
131.
  Rating:",bg='#42c8f5',font=('Cascadia Mono SemiLight',14))
            lab7=tk.Label(insertk,text="Have you watched it
132.
  yet?:",bg='#42c8f5',font=('Cascadia Mono SemiLight',14))
133.
134.
            #Placing labels
135.
            lab0.pack()
136.
            lab1.place(x=10, y=60)
137.
            lab2.place(x=10, y=100)
138.
            lab3.place(x=10, y=140)
139.
            lab4.place(x=10, y=180)
140.
            lab5.place(x=10,y=220)
141.
            lab6.place(x=10,y=260)
            lab7.place(x=10, y=300)
142.
143.
144.
            #Initializing variables to read the entry box data
145.
            nm=StringVar()
            genre=StringVar()
146.
147.
            dor=StringVar()
148.
            code=StringVar()
149.
            dr=StringVar()
```

```
150.
            rt=StringVar()
151.
            seen=StringVar()
152.
            #Creating entry boxes
153.
154.
            en0=tk.Entry(insertk)
155.
            en1=tk.Entry(insertk,textvariable=nm,font=('Cascadia
  Mono SemiLight',14))
            en2=tk.Entry(insertk,textvariable=genre,font=('Cascad
156.
  ia Mono SemiLight',14))
            en3=tk.Entry(insertk,textvariable=dor,font=('Cascadia
157.
  Mono SemiLight', 14))
            en4=tk.Entry(insertk,textvariable=code,font=('Cascadi
158.
  a Mono SemiLight',14))
159.
            en5=tk.Entry(insertk,textvariable=dr,font=('Cascadia
  Mono SemiLight',14))
            en6=tk.Entry(insertk,textvariable=rt,font=('Cascadia
160.
  Mono SemiLight',14))
            en7=tk.Entry(insertk,textvariable=seen,font=('Cascadi
161.
  a Mono SemiLight', 14))
162.
163.
            #Placing entry boxes
164.
            en1.place(x=225,y=62)
165.
            en2.place(x=225, y=102)
166.
            en3.place(x=575, y=142)
167.
            en4.place(x=105,y=182)
168.
            en5.place(x=180, y=222)
169.
            en6.place(x=145,y=262)
170.
            en7.place(x=290, y=302)
171.
            #Function to execute query for entering data in MySQL
172.
  table
            def insertin(event=None):
173.
174.
175.
                #Getting information from entry boxes
                Name=nm.get()
176.
177.
                Genre=genre.get()
178.
                DOR=dor.get()
179.
                Movie code=code.get()
180.
                Director=dr.get()
181.
                Rating=rt.get()
182.
                Seen=seen.get()
183.
                #Connecting to MySQL and executing the query
184.
                mvdb =
  sq.connect(host="localhost",user="root",password="root",databas
  e="movie database")
185.
                mycursor = mydb.cursor()
```

```
sql = "INSERT INTO Movies (Movie Name, Genre,
186.
  Date_of_release, IMDB_id, Director, Rating, Watched_it) VALUES
  (%s,%s,%s,%s,%s,%s,%s)"
                val =
187.
  (Name, Genre, DOR, Movie code, Director, Rating, Seen)
                 '''sql = "INSERT INTO Movies (Movie Name, Genre,
188.
  Date of release, IMDB id, Director, Rating, Watched it) VALUES
  (%s,%s,%s,%s,%s,%s,%s)"
189.
  (Name, Genre, DOR, Movie_code, Director, Rating, Seen)'''
190.
                mycursor.execute(sql, val)
191.
                mydb.commit()
192.
193.
                #Displaying message for successful insert
                added=tk.Label(insertk,text='Record
194.
  Inserted',font=('Cascadia Mono SemiLight',20),bg='#42c8f5')
195.
                added.place(x=300, y=340)
196.
197.
                #Setting all entry boxes to blank so that new
  data can be entered
198.
                nm.set('')
                genre.set('')
199.
                dor.set('')
200.
                code.set('')
201.
202.
                dr.set('')
                rt.set('')
203.
204.
                seen.set('')
205.
206.
            insertk.bind all('<Return>', insertin)
207.
208.
            #Function to ask confirmation from user for quiting
            def on closing():
209.
                 if messagebox.askyesno(title='QUIT?', message='Are
210.
  you sure you want to quit'):
                     insertk.destroy() #Closing this window
211.
                     recreate_root() #Re-opening root window
212.
                else:
213.
214.
                     pass
215.
216.
            insertk.protocol('WM DELETE WINDOW',on closing)
            insertk.mainloop()
217.
218.
219.
        #Function for updating a record
220.
        def update(event=None):
221.
222.
            #Closing menu window
223.
            root.destroy()
```

```
224.
225.
            #Creating window to update a record
226.
            updatetk=tk.Tk()
            updatetk.geometry('1000x100')
227.
228.
            updatetk.configure(bg='#42c8f5')
229.
            updatetk.title('Update Record')
230.
            #Asking user if they want to use the movie name or
231.
  IMDB ID to update the record
232.
            #Creating labels
233.
            lab0=tk.Label(updatetk,text='Update
  Record',font=('Cascadia Mono
  SemiLight', 18, 'bold'), bg='#42c8f5')
234.
            lab1=tk.Label(updatetk,text='Enter 1 to use movie
  name or 2 to use IMDB ID to update the data: ',font=('Cascadia
  Mono SemiLight', 14), bg='#42c8f5')
235.
236.
            #Placing labels
237.
            lab0.pack()
            lab1.place(x=10,y=50)
238.
239.
240.
            #Initializing variable to read the entry box data
241.
            val=StringVar()
242.
243.
            #Creating and placing entry box
244.
            en1=tk.Entry(updatetk,textvariable=val,font=('Cascadi
  a Mono SemiLight',14))
            en1.place(x=740,y=50)
245.
246.
            #Function to ask for confirmation and close the
247.
  window
            def on_closing():
248.
249.
                     if
  messagebox.askyesno(title='QUIT?', message='Are you sure you
  want to quit'):
250.
                         nonlocal updatetk
                         updatetk.destroy() #Closing this window
251.
252.
                         recreate root() #Re-opening root window
253.
                     else:
254.
                         pass
255.
            updatetk.protocol('WM_DELETE_WINDOW',on_closing)
256.
257.
            #Checking whether user wants to update using movie
  name or IMDB ID
258.
            def updateit(event=None):
259.
                char=val.get()
260.
                while char!='':
```

```
261.
                     if char=='1':
262.
                         updatewithname()
263.
                         break
                     elif char=='2':
264.
265.
                         updatewithid()
266.
                         break
267.
268.
            #Function to update using movie name
269.
            def updatewithname():
270.
271.
                #Closing choice window
272.
                nonlocal updatetk
                updatetk.destroy()
273.
274.
275.
                #Creating window to update using movie name
276.
                nametk=tk.Tk()
277.
                nametk.geometry('750x380')
278.
                nametk.configure(bg='#42c8f5')
                nametk.title('Updating Record using name')
279.
280.
281.
                #Creating labels
282.
                lab0=tk.Label(nametk,text='Update
  Record',font=('Cascadia Mono
  SemiLight',18,'bold'),bg='#42c8f5')
283.
                 lab1=tk.Label(nametk,text='--> 1. Movie name
   ',font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
                lab2=tk.Label(nametk,text='--> 2.
284.
  Genre',font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
                 lab3=tk.Label(nametk,text='--> 3. Date of
285.
  Release',font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
                 lab4=tk.Label(nametk,text='--> 4. IMDB
286.
  Id',font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
                 lab5=tk.Label(nametk,text='--> 5.
287.
  Director', font=('Cascadia Mono SemiLight',14), bg='#42c8f5')
                 lab9=tk.Label(nametk,text='--> 6. IMDB
  Rating',font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
289.
                 lab6=tk.Label(nametk,text="Movie name whose
  record you want to update: ", font=('Cascadia Mono
  SemiLight', 14), bg='#42c8f5')
                 lab7=tk.Label(nametk,text="Record you want to
290.
  update:",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
                 lab8=tk.Label(nametk,text="Enter the
  change:",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
292.
293.
                #Placing labels
294.
                lab0.pack()
295.
                lab6.place(x=10, y=50)
```

```
296.
                 lab1.place(x=10, y=80)
297.
                 lab2.place(x=10, y=110)
298.
                 lab3.place(x=10, y=140)
                 lab4.place(x=10, y=170)
299.
300.
                 lab5.place(x=10,y=200)
301.
                 lab9.place(x=10,y=230)
302.
                 lab7.place(x=10, y=260)
                 lab8.place(x=10, y=290)
303.
304.
305.
                 #Initialising variables to read entry box
306.
                 upe=StringVar()
307.
                 fi=StringVar()
308.
                 fich=StringVar()
309.
310.
                 #Creating entry boxes
                 en1=tk.Entry(nametk,textvariable=upe,font=('Casca
311.
  dia Mono SemiLight',14))
                 en2=tk.Entry(nametk,textvariable=fi,font=('Cascad
312.
  ia Mono SemiLight',14))
                 en3=tk.Entry(nametk,textvariable=fich,font=('Casc
313.
  adia Mono SemiLight', 14))
314.
315.
                 #Placing entry boxes
316.
                 en1.place(x=490,y=52)
                 en2.place(x=300, y=262)
317.
318.
                 en3.place(x=200, y=294)
319.
320.
                 #Function to execute query for updating record
  using movie name
321.
                 def finallyupdating(event=None):
322.
                     #Getting information from entry boxes
323.
324.
                     up=upe.get()
325.
                     fields=int(fi.get())
                     fieldch=fich.get()
326.
327.
328.
                     #Checking for which data is to be updated
329.
                     if fields==1:
330.
                         field='Movie Name'
331.
                     elif fields==2:
                         field='Genre'
332.
333.
                     elif fields==3:
334.
                         field='Date of release'
335.
                     elif fields==4:
336.
                         field='IMDB id'
337.
                     elif fields==5:
338.
                         field='Director'
```

```
339.
                     elif fields==6:
340.
                         field='Rating'
341.
                     #Connecting to MySQL and executing the query
342.
343.
                     mydb=
  sq.connect(host="localhost",user="root",passwd="root",database=
  "movie database")
344.
                     cursor=mydb.cursor()
345.
                     update="UPDATE Movies set {} = '{}' WHERE
  Movie_Name = '{}'".format(field,fieldch,up)
                     cursor.execute(update)
346.
347.
                     mydb.commit()
348.
349.
                     #Displaying message for successful update
                     lab0=tk.Label(nametk,text="Record
350.
  Updated!",font=('Cascadia Mono SemiLight',24),bg='#42c8f5')
351.
                     lab0.place(x=240, y=325)
352.
353.
                     #Setting all entry boxes to blank so that
  more updates can be done
                     upe.set('')
354.
                     fi.set('')
355.
356.
                     fich.set('')
357.
358.
                #Function to ask confirmation from user for
  quiting
359.
                 def on closingname():
360.
                     if
  messagebox.askyesno(title='QUIT?', message='Are you sure you
  want to quit'):
                         nonlocal nametk
361.
                         nametk.destroy() #Closing this window
362.
363.
                         recreate root() # Re-opening root window
364.
                     else:
365.
                         pass
                 nametk.bind_all('<Return>', finallyupdating)
366.
                 nametk.protocol('WM DELETE WINDOW',on closingname
367.
  )
368.
369.
            #Function to update using IMDB ID
370.
            def updatewithid():
371.
372.
                 #Closing choice window
373.
                nonlocal updatetk
374.
                 updatetk.destroy()
375.
376.
                 #Creating window to update using IMDB ID
```

```
377.
                 idtk=tk.Tk()
378.
                 idtk.geometry('850x380')
379.
                 idtk.configure(bg='#42c8f5')
                 idtk.title('Updating Record using IMDB ID')
380.
381.
382.
                #Creating labels
383.
                 lab0=tk.Label(idtk,text='Update
  Record',font=('Cascadia Mono
  SemiLight',18,'bold'),bg='#42c8f5')
                 lab1=tk.Label(idtk,text='--> 1. Movie name
384.
   ',font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
                 lab2=tk.Label(idtk,text='--> 2.
385.
  Genre',font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
                 lab3=tk.Label(idtk,text='--> 3. Date of
386.
  Release',font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
                 lab4=tk.Label(idtk,text='--> 4. IMDB
387.
  Id',font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
                 lab5=tk.Label(idtk,text='--> 5.
388.
  Director', font=('Cascadia Mono SemiLight',14), bg='#42c8f5')
                 lab9=tk.Label(idtk,text='--> 6. IMDB
389.
  Rating',font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
                 lab6=tk.Label(idtk,text="IMDB ID of the movie
390.
  whose record you want to update: ", font=('Cascadia Mono
  SemiLight', 14), bg='#42c8f5')
391.
                 lab7=tk.Label(idtk,text="Record you want to
  update:",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
392.
                 lab8=tk.Label(idtk,text="Enter the
  change:",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
393.
394.
                #Placing labels
395.
                 lab0.pack()
                 lab6.place(x=10,y=50)
396.
397.
                 lab1.place(x=10, y=80)
398.
                 lab2.place(x=10, y=110)
399.
                 lab3.place(x=10, y=140)
                lab4.place(x=10, y=170)
400.
401.
                 lab5.place(x=10, y=200)
402.
                lab9.place(x=10,y=230)
                 lab7.place(x=10, y=260)
403.
404.
                 lab8.place(x=10, y=290)
405.
406.
                #Initialising variables to read entry box
407.
                upe=StringVar()
408.
                fi=StringVar()
                fich=StringVar()
409.
410.
                #Creating entry boxes
411.
```

```
412.
                 en1=tk.Entry(idtk,textvariable=upe,font=('Cascadi
  a Mono SemiLight',14))
                 en2=tk.Entry(idtk,textvariable=fi,font=('Cascadia
413.
  Mono SemiLight',14))
414.
                 en3=tk.Entry(idtk,textvariable=fich,font=('Cascad
  ia Mono SemiLight',14))
415.
416.
                 #Placing entry boxes
                en1.place(x=600,y=52)
417.
418.
                 en2.place(x=300, y=262)
419.
                 en3.place(x=200, y=294)
420.
                 #Function to execute query for updating record
421.
  using IMDB ID
                 def finallyupdating(event=None):
422.
423.
424.
                     #Getting information from entry boxes
425.
                     up=upe.get()
                     fields=int(fi.get())
426.
427.
                     fieldch=fich.get()
428.
429.
                     #Checking for which data is to be updated
430.
                     if fields==1:
                         field='Movie Name'
431.
432.
                     elif fields==2:
433.
                         field='Genre'
434.
                     elif fields==3:
435.
                         field='Date of release'
                     elif fields==4:
436.
437.
                         field='IMDB id'
438.
                     elif fields==5:
                         field='Director'
439.
440.
                     elif fields==6:
                         field='Rating'
441.
442.
443.
                     #Connecting to MySQL and executing the query
444.
                     mydb=
  sq.connect(host="localhost",user="root",passwd="root",database=
  "movie database")
445.
                     cursor=mydb.cursor()
                     update="UPDATE Movies set {} = '{}' WHERE
446.
  IMDB ID= '{}'".format(field,fieldch,up)
                     cursor.execute(update)
447.
448.
                     mydb.commit()
449.
450.
                     #Displaying message for successful update
```

```
451.
                     lab0=tk.Label(idtk,text="Record
  Updated!",font=('Cascadia Mono SemiLight',24),bg='#42c8f5')
                     lab0.place(x=240, y=325)
452.
453.
454.
                     #Setting all entry boxes to blank so that
  more updates can be made
                     upe.set('')
455.
                     fi.set('')
456.
457.
                     fich.set('')
458.
                #Function to ask confirmation from user for
459.
  quiting
                def on closingid():
460.
461.
                     if
  messagebox.askyesno(title='QUIT?', message='Are you sure you
  want to quit'):
                         nonlocal idtk
462.
                         idtk.destroy() #Closing this window
463.
464.
                         recreate root() #Re-opening root window
465.
                     else:
466.
                         pass
                idtk.bind all('<Return>', finallyupdating)
467.
                idtk.protocol('WM DELETE WINDOW',on closingid)
468.
469.
470.
            updatetk.bind all('<Return>', updateit)
471.
            updateit()
472.
            updatetk.protocol('WM DELETE WINDOW',on closing)
            updatetk.mainloop()
473.
474.
475.
        #Function for deleting a record
       def delete():
476.
477.
478.
            #Closing menu window
            root.destroy()
479.
480.
481.
            #Creating window to delete a record
            deletetk=tk.Tk()
482.
            deletetk.geometry('1000x100')
483.
484.
            deletetk.configure(bg='#42c8f5')
            deletetk.title('Delete Record')
485.
486.
487.
            #Asking user if they want to use the movie name or
  IMDB ID to delete the record
            #Creating labels
488.
489.
            lab0=tk.Label(deletetk,text='Delete
  Record',font=('Cascadia Mono
  SemiLight', 18, 'bold'), bg='#42c8f5')
```

```
490.
            lab1=tk.Label(deletetk,text='Enter 1 to use movie
  name or 2 to use IMDB ID to delete the data: ',font=('Cascadia
  Mono SemiLight', 14), bg='#42c8f5')
491.
492.
            #Placing labels
493.
            lab0.pack()
            lab1.place(x=10,y=50)
494.
495.
496.
            #Initializing variable to read the entry box data
497.
            val=StringVar()
498.
499.
            #Creating and placing entry box
            en1=tk.Entry(deletetk,textvariable=val,font=('Cascadi
500.
  a Mono SemiLight', 14))
501.
            en1.place(x=730,y=53)
502.
503.
            #Function to ask for confirmation and close the
  window
            def on_closing():
504.
505.
                     if
  messagebox.askyesno(title='QUIT?', message='Are you sure you
  want to quit'):
                         nonlocal deletetk
506.
507.
                         deletetk.destroy() #Closing this window
508.
                         recreate root() #Re-opening root window
509.
                     else:
510.
                         pass
511.
            deletetk.protocol('WM DELETE WINDOW',on closing)
512.
513.
            #Checking whether user wants to delete using movie
  name or IMDB ID
            def deleteit(event=None):
514.
515.
                 char=val.get()
                while char!='':
516.
517.
                     if char=='1':
518.
                         deletewithname()
519.
                         break
520.
                     elif char=='2':
521.
                         deletewithid()
522.
                         break
523.
524.
            #Function to delete using movie name
525.
            def deletewithname():
526.
527.
                 #Closing choice window
528.
                 nonlocal deletetk
529.
                 deletetk.destroy()
```

```
530.
531.
                #Creating window to delete using movie name
                nametk=tk.Tk()
532.
                nametk.geometry('1060x130')
533.
534.
                nametk.configure(bg='#42c8f5')
535.
                nametk.title('Deleting Record using name')
536.
537.
                #Creating labels
                lab0=tk.Label(nametk,text='Delete
538.
  Record',font=('Cascadia Mono
  SemiLight', 18, 'bold'), bg='#42c8f5')
539.
                 lab1=tk.Label(nametk,text='Enter the name of the
  movie whose data you want to delete: ',font=('Cascadia Mono
  SemiLight', 18), bg='#42c8f5')
540.
541.
                #Placing labels
542.
                lab0.pack()
                lab1.place(x=10, y=50)
543.
544.
545.
                #Initialising variable to read entry box
                de=StringVar()
546.
547.
548.
                #Creating and placing entry box
549.
                en1=tk.Entry(nametk,textvariable=de,font=('Cascad
  ia Mono SemiLight',14))
550.
                en1.place(x=825, y=59)
551.
552.
                #Function to execute query for deleteing record
  using movie name
                def finallydeleting(event=None):
553.
554.
                     #Getting information from entry box
555.
                     dele=de.get()
556.
557.
                     #Connecting to MySQL and executing the guery
                     c=sq.connect(host="localhost",user="root",pas
558.
  swd="root",database="movie database")
559.
                     cursor=c.cursor()
560.
                     sql="DELETE FROM Movies WHERE
  Movie_Name='{}'".format(dele)
561.
                     cursor.execute(sql)
562.
                     c.commit()
563.
564.
                     #Displaying message for successful delete
565.
                     lab2=tk.Label(nametk,text="Record
  Deleted!",font=('Cascadia Mono
  SemiLight',15,'bold'),bg='#42c8f5')
566.
                     lab2.place(x=400, y=90)
```

```
567.
568.
                    #Setting all entry boxes to blank so that
  more updates can be done
                    de.set('')
569.
570.
571.
                #Function to ask confirmation from user for
  quiting
572.
                def on closingname():
573.
                     if
  messagebox.askyesno(title='QUIT?',message='Are you sure you
  want to quit'):
574.
                         nonlocal nametk
575.
                         nametk.destroy() #Closing this window
576.
                         recreate root() #Re-opening root window
577.
                     else:
578.
                         pass
                nametk.bind_all('<Return>', finallydeleting)
579.
                nametk.protocol('WM DELETE WINDOW',on closingname
580.
  )
581.
582.
            #Function to delete using IMDB ID
            def deletewithid():
583.
584.
585.
                #Closing choice window
586.
                nonlocal deletetk
587.
                deletetk.destroy()
588.
589.
                #Creating window to delete using movie name
590.
                idtk=tk.Tk()
591.
                idtk.geometry('1150x110')
592.
                idtk.configure(bg='#42c8f5')
                idtk.title('Deleting Record using IMDB ID')
593.
594.
595.
                #Creating labels
                lab0=tk.Label(idtk,text='Delete
596.
  Record',font=('Cascadia Mono
  SemiLight',18,'bold'),bg='#42c8f5')
597.
                 lab1=tk.Label(idtk,text='Enter the IMDB ID of the
  movie whose data you want to delete: ',font=('Cascadia Mono
  SemiLight', 18), bg='#42c8f5')
598.
599.
                #Placing labels
600.
                lab0.pack()
601.
                lab1.place(x=10, y=50)
602.
603.
                #Initialising variable to read entry box
604.
                de=StringVar()
```

```
605.
606.
                #Creating and placing entry boxes
                en1=tk.Entry(idtk,textvariable=de,font=('Cascadia
607.
  Mono SemiLight',14))
608.
                en1.place(x=870, y=59)
609.
610.
                #Function to execute query for deleteing record
  using IMDB ID
                def finallydeleting(event=None):
611.
612.
                     #Getting information from entry box
613.
                     dele=de.get()
614.
615.
                     #Connecting to MySQL and executing the guery
616.
                     c=sq.connect(host="localhost",user="root",pas
  swd="root",database="movie database")
                     cursor=c.cursor()
617.
618.
                     sql="DELETE FROM Movies WHERE IMDB id =
  '{}'".format(dele)
619.
                     cursor.execute(sql)
620.
                     c.commit()
621.
                     #Displaying message for successful delete
622.
623.
                     lab2=tk.Label(idtk,text="Record
  Deleted!",font=('Cascadia Mono
  SemiLight', 15, 'bold'), bg='#42c8f5')
624.
                     lab2.place(x=320, y=80)
625.
626.
                    #Setting all entry boxes to blank so that
  more updates can be done
627.
                     de.set('')
628.
                #Function to ask confirmation from user for
629.
  quiting
                def on closingid():
630.
631.
  messagebox.askyesno(title='QUIT?', message='Are you sure you
  want to quit'):
632.
                         nonlocal idtk
633.
                         idtk.destroy() #Closing this window
634.
                         recreate root() #Re-opening root window
635.
                     else:
636.
                         pass
                idtk.bind_all('<Return>', finallydeleting)
637.
                idtk.protocol('WM_DELETE_WINDOW',on_closingid)
638.
639.
640.
            deletetk.bind all('<Return>',deleteit)
641.
            deleteit()
```

```
642.
            deletetk.mainloop()
643.
644.
645.
        #Function for searching a record
646.
        def search():
647.
648.
            #Closing menu window
649.
            root.destroy()
650.
651.
            #Creating window to search a record
652.
            searchtk=tk.Tk()
653.
            searchtk.geometry('1000x100')
            searchtk.configure(bg='#42c8f5')
654.
655.
            searchtk.title('Search Record')
656.
657.
            #Asking user if they want to use the movie name or
  IMDB ID to search the record
658.
            #Creating labels
659.
            lab0=tk.Label(searchtk,text='Search
  Record',font=('Cascadia Mono
  SemiLight', 18, 'bold'), bg='#42c8f5')
            lab1=tk.Label(searchtk,text='Enter 1 to use movie
660.
  name or 2 to use IMDB ID to search the data: ',font=('Cascadia
  Mono SemiLight', 14), bg='#42c8f5')
661.
662.
            #Placing labels
663.
            lab0.pack()
            lab1.place(x=10, y=50)
664.
665.
666.
            #Initializing variable to read the entry box data
667.
            val=StringVar()
668.
669.
            #Creating and placing entry box
            en1=tk.Entry(searchtk,textvariable=val,font=('Cascadi
670.
  a Mono SemiLight', 14))
671.
            en1.place(x=730,y=53)
672.
673.
            #Function to ask for confirmation and close the
  window
674.
            def on closing():
675.
                     if
  messagebox.askyesno(title='QUIT?', message='Are you sure you
  want to quit'):
                         nonlocal searchtk
676.
                         searchtk.destroy() #Closing this window
677.
678.
                         recreate root() #Re-opening root window
679.
                     else:
```

```
680.
                         pass
681.
            searchtk.protocol('WM DELETE WINDOW',on closing)
682.
            #Checking whether user wants to search using movie
683.
  name or IMDB ID
684.
            def searchit(event=None):
685.
                char=val.get()
686.
                while char!='':
687.
                     if char=='1':
688.
                         searchwithname()
689.
                         break
                     elif char=='2':
690.
691.
                         searchwithid()
692.
                         break
693.
694.
            #Function to search using movie name
695.
            def searchwithname():
696.
697.
                #Closing choice window
                nonlocal searchtk
698.
                 searchtk.destroy()
699.
700.
701.
                #Creating window to search using movie name
702.
                nametk = tk.Tk()
703.
                nametk.geometry('950x100')
                nametk.configure(bg='#42c8f5')
704.
705.
                nametk.title('Searching Record using name')
706.
707.
                #Creating labels
708.
                lab0 = tk.Label(nametk, text='Search Record',
  font=('Cascadia Mono SemiLight', 18, 'bold'), bg='#42c8f5')
                 lab1 = tk.Label(nametk, text='Enter the name of
709.
  the movie whose data you want to search: ', font=('Cascadia
  Mono SemiLight', 14), bg='#42c8f5')
710.
711.
                #Placing labels
712.
                lab0.pack()
713.
                lab1.place(x=10,y=50)
714.
                #Initializing variable to read entry box
715.
716.
                 search = StringVar()
717.
718.
                #Creating and placing entry box
719.
                en1 = tk.Entry(nametk, textvariable=search,
  font=('Cascadia Mono SemiLight', 14))
720.
                en1.place(x=650,y=53)
721.
```

```
722.
                #Function to execute query for searching record
  using movie name and displaying it
                def finallysearching(event=None):
723.
724.
                    try:
725.
                         #Getting information from entry box
726.
                         idd = search.get()
727.
                        #Connecting to MySQL and executing the
728.
  query
729.
                        mydb = sq.connect(host='localhost',
  user='root', password='root', database='movie database')
                         cursor = mydb.cursor()
730.
731.
                         cursor.execute("SELECT * FROM Movies
  WHERE Movie name = '{}'".format(idd))
732.
733.
                         #Reading the output provied by MySQL
734.
                         result = cursor.fetchall()
735.
                         #Displaying output according to the
  result obtained from the query
                        #If record exists
736.
737.
                         if result:
738.
739.
                             #New window to display data
740.
                             display window = tk.Tk()
741.
                             display window.geometry('1040x110')
                             display window.configure(bg='#42c8f5'
742.
  )
743.
                             display window.title('Search Results
  for Movie Name')
744.
                             #Creating header labels for the table
745.
                             header labels = ['Movie Name',
746.
   'Genre', 'Date of Release', 'IMDB ID', 'Director',
  'Rating','Watched it?']
                             for i, header in
  enumerate(header_labels):
                                 tk.Label(display window,
748.
  text=header, font=('Cascadia Mono SemiLight', 16),
  bg='#42c8f5').grid(row=0, column=i, padx=10, pady=10)
749.
750.
                             #Adding movie records in rows
751.
                             for i, record in enumerate(result):
752.
                                 for j, value in
  enumerate(record):
                                     tk.Label(display window,
753.
  text=value, font=('Cascadia Mono SemiLight', 14),
  bg='#42c8f5').grid(row=i+1, column=j, padx=10, pady=5)
```

```
754.
755.
                             display window.mainloop()
756.
                         else:
757.
                             messagebox.showinfo("No Results", "No
  records found for the given IMDB ID.")
                     except Exception as e:
758.
759.
                         print("Error: {e}")
760.
761.
                #Function to ask confirmation from user for
  quiting
                def on_closingname():
762.
763.
                     if
  messagebox.askyesno(title='QUIT?', message='Are you sure you
  want to quit'):
764.
                         nonlocal nametk
765.
                         nametk.destroy() #Closing this window
766.
                         recreate_root() #Re-opening root window
767.
                     else:
768.
                         pass
769.
                nametk.bind_all('<Return>', finallysearching)
                nametk.protocol('WM DELETE WINDOW',
770.
  on closingname)
771.
772.
            #Function to search using movie name
773.
            def searchwithid():
774.
775.
                #Closing choice window
776.
                nonlocal searchtk
777.
                searchtk.destroy()
778.
779.
                #Creating window to search using IMDB ID
780.
                idtk = tk.Tk()
                idtk.geometry('950x100')
781.
                 idtk.configure(bg='#42c8f5')
782.
                idtk.title('Searching Record using IMDB ID')
783.
784.
785.
                #Creating labels
                lab0 = tk.Label(idtk, text='Search Record',
786.
  font=('Cascadia Mono SemiLight', 18, 'bold'), bg='#42c8f5')
                 lab1 = tk.Label(idtk, text='Enter the IMDB ID of
787.
  the movie whose data you want to search: ', font=('Cascadia
  Mono SemiLight', 14), bg='#42c8f5')
788.
789.
                #Placing labels
790.
                lab0.pack()
791.
                lab1.place(x=10,y=50)
792.
```

```
793.
                #Initializing variable to read entry box
794.
                search = StringVar()
795.
                #Creating and placing entry box
796.
                en1 = tk.Entry(idtk, textvariable=search,
797.
  font=('Cascadia Mono SemiLight', 14))
798.
                en1.place(x=690,y=53)
799.
800.
                #Function to execute query for searching record
  using movie name and displaying it
                def finallysearching(event=None):
801.
802.
                     try:
803.
                         #Getting information from entry box
804.
                         idd = search.get()
805.
806.
                         #Connecting to MySQL and executing the
  query
                         mydb = sq.connect(host='localhost',
807.
  user='root', password='root', database='movie database')
                         cursor = mydb.cursor()
808.
                         cursor.execute("SELECT * FROM Movies
809.
  WHERE IMDB id = '{}'".format(idd))
810.
811.
                         #Reading the output provied by MySOL
812.
                         result = cursor.fetchall()
813.
                         #Displaying output according to the
  result obtained from the query
                         #If record exists
814.
815.
                         if result:
816.
817.
                             #New window to display data
                             display_window = tk.Tk()
818.
                             display window.geometry('1040x110')
819.
820.
                             display window.configure(bg='#42c8f5'
  )
821.
                             display window.title('Search Results
  for IMDB ID')
822.
823.
                             #Creating header labels for the table
                             header labels = ['Movie Name',
824.
   'Genre', 'Date of Release', 'IMDB ID', 'Director',
  'Rating','Watched it?']
825.
                             for i, header in
  enumerate(header_labels):
826.
                                 tk.Label(display window,
  text=header, font=('Cascadia Mono SemiLight', 16),
  bg='#42c8f5').grid(row=0, column=i, padx=10, pady=10)
```

```
827.
828.
                             #Adding movie records in rows
829.
                             for i, record in enumerate(result):
                                 for j, value in
830.
  enumerate(record):
831.
                                     tk.Label(display window,
  text=value, font=('Cascadia Mono SemiLight', 14),
  bg='#42c8f5').grid(row=i + 1, column=j, padx=10, pady=5)
832.
833.
                             display window.mainloop()
834.
                         else:
835.
                             messagebox.showinfo("No Results", "No
  records found for the given IMDB ID.")
836.
                     except Exception as e:
837.
                         print("Error: {e}")
838.
839.
                #Function to ask confirmation from user for
  quiting
                def on_closingid():
840.
                     if
841.
  messagebox.askyesno(title='QUIT?', message='Are you sure you
  want to quit'):
                         nonlocal idtk
842.
843.
                         idtk.destroy() #Closing this window
844.
                         recreate root() #Re-opening root window
845.
                     else:
846.
                         pass
                idtk.bind all('<Return>', finallysearching)
847.
                idtk.protocol('WM DELETE WINDOW', on closingid)
848.
849.
850.
            searchtk.bind all('<Return>',searchit)
851.
852.
       #Function for displaying the data
853.
        def display():
854.
855.
            #Closing menu window
            root.destroy()
856.
857.
858.
            #Creating window to search a record
            displaytk=tk.Tk()
859.
            displaytk.configure(bg='#42c8f5')
860.
861.
            displaytk.geometry('1210x400')
            displaytk.title('Display Record')
862.
863.
            #Connecting to MySQL and executing the query
864.
            mydb=sq.connect(host="localhost", user="root",
865.
  password="root", database="movie database")
```

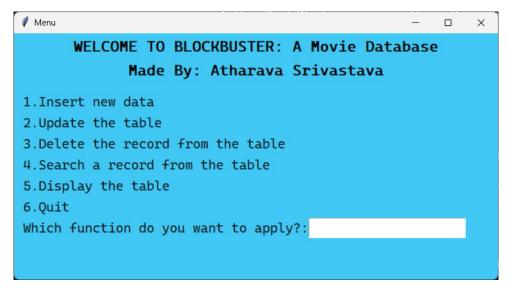
```
866.
            cursor=mydb.cursor()
867.
            sql="SELECT * FROM Movies ORDER BY Movie Name"
            cursor.execute(sql)
868.
            myresult=cursor.fetchall()
869.
870.
871.
            #Creating a frame
            container=tk.Frame(displaytk, bg='#42c8f5')
872.
873.
            container.pack(fill='both', expand=True)
874.
875.
            #Creating the canvas and the scrollbar
            canvas = tk.Canvas(container, bg='#42c8f5')
876.
877.
            scrollbar = tk.Scrollbar(container,
  orient='vertical', command=canvas.vview)
            scrollable_frame = tk.Frame(canvas, bg='#42c8f5')
878.
879.
880.
            #Configuring the scrollable frame
            scrollable_frame.bind("<Configure>",lambda e:
881.
  canvas.configure(scrollregion=canvas.bbox("all")))
            canvas.create window((0, 0), window=scrollable frame,
882.
  anchor="nw")
            canvas.configure(yscrollcommand=scrollbar.set)
883.
884.
885.
            #Adding the header labels
            header_labels = ['Movie Name', 'Genre', 'Date of
886.
  Release', 'IMDB Id', 'Director', 'Rating','Watched it?']
887.
            for i, header in enumerate(header labels):
                tk.Label(scrollable_frame, text=header,
888.
  font=('Cascadia Mono SemiLight', 16), bg='#42c8f5').grid(row=0,
  column=i, padx=10, pady=10)
889.
890.
            #Adding movie records in rows
            for i, record in enumerate(myresult):
891.
                for j, value in enumerate(record):
892.
893.
                    tk.Label(scrollable frame, text=value,
  font=('Cascadia Mono SemiLight', 14),
  bg='#42c8f5').grid(row=i+1, column=j, padx=10, pady=5)
894.
895.
            #Placing the canvas and the scrollbar
            canvas.pack(side="left", fill="both", expand=True)
896.
            scrollbar.pack(side="right", fill="y")
897.
898.
899.
            #Function to ask confirmation from user on quitting
900.
            def on closing():
901.
                if messagebox.askyesno(title='QUIT?',
  message='Are you sure you want to quit'):
902.
                    displaytk.destroy() #Closing this window
903.
                    recreate root() #Re-opening root window
```

```
904.
                else:
905.
                     pass
906.
            displaytk.protocol('WM_DELETE_WINDOW', on_closing)
907.
908.
            displaytk.mainloop()
909.
910.
        #Root window
911.
        root=tk.Tk()
912.
        root.geometry('690x350')
913.
        root.configure(bg='#42c8f5')
        root.title('Menu')
914.
915.
        lab3=tk.Label(root, text="WELCOME TO BLOCKBUSTER: A Movie
  Database", font=('Cascadia Mono
  SemiLight', 16, 'bold'), bg='#42c8f5')
        lab6=tk.Label(root, text="Made By: Atharava
916.
  Srivastava",font=('Cascadia Mono
  SemiLight',16,'bold'),bg='#42c8f5')
        lab3.pack()
917.
918.
        lab6.pack()
919.
920.
        lin1=tk.Label(root,text="1.Insert new data
  ",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
        lin2=tk.Label(root,text="2.Update the
921.
  table",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
922.
        lin3=tk.Label(root,text="3.Delete the record from the
  table", font=('Cascadia Mono SemiLight', 14), bg='#42c8f5')
        lin4=tk.Label(root,text="4.Search a record from the
923.
  table", font=('Cascadia Mono SemiLight', 14), bg='#42c8f5')
        lin5=tk.Label(root,text="5.Display the
924.
  table",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
        lin6=tk.Label(root,text="6.Quit",font=('Cascadia Mono
925.
  SemiLight', 14), bg='#42c8f5')
926.
927.
        lin1.place(x=10,y=80)
        lin2.place(x=10,y=110)
928.
929.
        lin3.place(x=10,y=140)
        lin4.place(x=10,y=170)
930.
931.
        lin5.place(x=10,y=200)
932.
        lin6.place(x=10,y=230)
933.
934.
        ch=StringVar()
935.
936.
        lab1=tk.Label(root,text="Which function do you want to
  apply?:",font=('Cascadia Mono SemiLight',14),bg='#42c8f5')
937.
        lab1.place(x=10, y=260)
938.
        en1=tk.Entry(root, textvariable=ch, font=('Cascadia Mono
  SemiLight', 14))
```

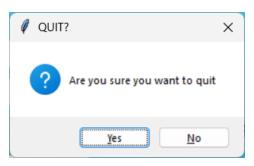
```
939.
        en1.place(x=420,y=263)
940.
        #Function to ask confirmation from user for quiting
941.
        def on closing():
942.
                 if messagebox.askyesno(title='QUIT?',message='Are
943.
  you sure you want to quit'):
944.
                     root.destroy() #Closing root window
945.
946.
                     #Creating exit window
947.
                     exit =tk.Tk()
                     exit .geometry('500x100')
948.
                     exit .config(bg='#42c8f5')
949.
                     exit .title('Exit')
950.
951.
                     label 0=tk.Label(exit , text="Thank")
  You!", font=('Cascadia Mono SemiLight', 16, 'bold'), bg='#42c8f5')
                     label_1=tk.Label(exit_, text="Hope you have a
952.
  nice day!",font=('Cascadia Mono
  SemiLight', 16, 'bold'), bg='#42c8f5')
953.
                     label 0.pack()
                     label_1.pack()
954.
955.
                 else:
956.
                     pass
957.
958.
        root.protocol('WM DELETE WINDOW', on closing)
959.
960.
        #Function to accept the choice user from menu items
961.
        def choicefunc(event=None):
            choice=ch.get()
962.
963.
            #To insert new data
964.
            if choice=='1':
965.
                 insert()
966.
            #To update a record
967.
            elif choice=='2':
                 update()
968.
969.
            #To delete a record
            elif choice=='3':
970.
971.
                 delete()
972.
            #To search a record
973.
            elif choice=='4':
974.
                 search()
975.
            #To display the data
976.
            elif choice=='5':
977.
                 display()
978.
            #To exit the program
            elif choice=='6':
979.
980.
                 #Creating exit window
981.
                 exit =tk.Tk()
```

```
exit .geometry('500x100')
982.
                exit .config(bg='#42c8f5')
983.
                exit_.title('Exit')
984.
                label_0=tk.Label(exit_, text="Thank
985.
  You!", font=('Cascadia Mono SemiLight', 16, 'bold'), bg='#42c8f5')
                 label 1=tk.Label(exit , text="Hope you have a
986.
  nice day!",font=('Cascadia Mono
  SemiLight',16,'bold'),bg='#42c8f5')
987.
                 label 0.pack()
988.
                 label 1.pack()
989.
                root.destroy()
990.
991.
            #Invaild input
992.
            else:
                lab2=tk.Label(root,text="Please Enter Valid
993.
  Input!",font=('Cascadia Mono SemiLight',15),bg='#42c8f5')
                 lab2.place(x=170, y=300)
994.
995.
                ch.set('')
996.
        #Binding Return to key accept final inputs.
997.
        en1.bind('<Return>',choicefunc)
998.
```

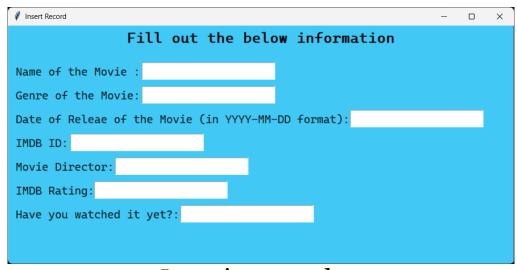
4. User Interface:



Main Menu



Exit Confirmation



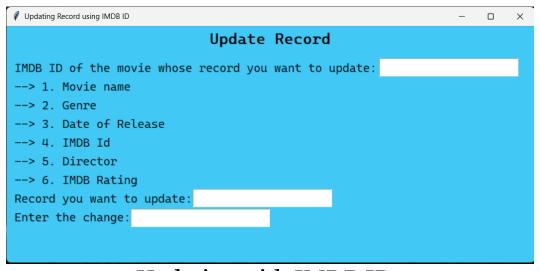
Inserting record



Update choice

Updating Record using name	_	×
Update Record		
Movie name whose record you want to update:		
> 1. Movie name		
> 2. Genre		
> 3. Date of Release		
> 4. IMDB Id		
> 5. Director		
> 6. IMDB Rating		
Record you want to update:		
Enter the change:		

Updating with name



Updating with IMDB ID



Delete choice



Deleting with name



Deleting with IMDB ID



Search choice



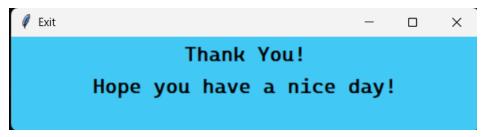
Searching with name



Searching with IMDB ID

Movie Name	Genre	Date of Release	IMDB Id	Director	Rating	Watched it?
12th Fail	Drama	2023-10-27	8	Vidhu Vinod Chopra	7.9	Yes
3 Idiots	Comedy, Drama	2009-12-25	3	Rajkumar Hirani	8.4	Yes
Chhichhore	Comedy, Drama	2019-09-06	4	Nitesh Tiwari	8.0	Yes
Dil Bechara	Romance, Drama	2020-07-24	1	Mukesh Chhabra	6.6	No
Forrest Gump	Drama, Romance	1994-07-06	5	Robert Zemeckis	8.8	Yes
Friday Night Plan	Comedy, Drama	2023-09-01	7	Vatsal Neelakantan	5.7	No
Munjya	Horror, Comedy	2024-06-07	2	Aditya Sarpotdar	6.4	No
Tumse Na Ho Payega	Comedy	2023-09-29	6	Abhishek Sinha	6.2	Yes

Display



Exit

5. MySQL Table:

Field	Туре	Null	Key	Default	Extra
Movie_Name Genre date_of_release IMDB_id Director Rating Watched_it	varchar(500) varchar(100) date int varchar(500) varchar(500) varchar(5)	YES YES		NULL NULL NULL NULL NULL NULL NULL	

Table Properties

Movie_Name	Genre	date_of_release	IMDB_id	Director	Rating	Watched_it
Dil Bechara	Romance, Drama	2020-07-24	1	Mukesh Chhabra	6.6	No
Munjya	Horror, Comedy	2024-06-07	2	Aditya Sarpotdar	6.4	No
3 Idiots	Comedy, Drama	2009-12-25	3	Rajkumar Hirani	8.4	Yes
Chhichhore	Comedy, Drama	2019-09-06	4	Nitesh Tiwari	8.0	Yes
Forrest Gump	Drama, Romance	1994-07-06	5	Robert Zemeckis	8.8	Yes
Tumse Na Ho Payega	Comedy	2023-09-29	6	Abhishek Sinha	6.2	Yes
Friday Night Plan	Comedy, Drama	2023-09-01	7	Vatsal Neelakantan	5.7	No
12th Fail	Drama	2023-10-27	8	Vidhu Vinod Chopra	7.9	Yes

Dummy Database

Recommendations

- 1. More features can be added to this project like:
 - i. Ability to add personal reviews for the movie
 - ii. Allow users to make a fuzzy search, i.e., ability to search even with wrong spellings
 - iii. Display data with some kind of sort
- 2. The UI can be improved by using advanced functions of Tkinter.
- 3. The code can be optimized further to reduce its time complexity.

Conclusion

This applet can be used for personal use to store information about movies locally on computer systems.

Creating this project helped me explore the world of UI and Python connectivity with MySQL.

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