
COMPUTER SCIENCE PROJECT

SESSION:2020-2021

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12-A

Certificate

This is to certify that **BEANT
KAUR** of **12-A** has
successfully completed her
research on the mentioned
project under the guidance
of **MS. ANU BHATIA** during
the session **2020-2021**.

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PROJECT INTRODUCTION

This project is based on a pharmacy data keeping system . This code will help the pharmacy company to maintain the data related to medicines like what these medicines help to cure, there price, the date on which that medicine is purchased .

This code enables the company to add new records ,display them, search records, delete records and modify records

Thus ,it helps the pharmacy to easily organise all their data

HARDWARE REQUIREMENTS

1. Processor: intel(R) Core(TM)i3-10110U CPU@2.10GHz
2. Hard Disk: 457 GB or more
3. RAM: 4 GB
4. Printer: Any
5. Monitor: Generic PnP Monitor
6. Pointing Device: Keys

SOFTWARE REQUIREMENTS

1. Operating System: Windows 8 and above
2. Front End: Python
3. Back End: MySQL

TABLE USED

❖ Pharmacy

```
mysql> use beant;
Database changed
mysql> create table pharmacy(M_id varchar(10)
->
-> )primary key,Mname varchar(30),code int(10),qty int(10),purchase_date date ,price varchar(6),
-> usetocure varchar(30));
Query OK, 0 rows affected, 2 warnings (0.42 sec)

mysql> describe pharmacy;
```

Field	Type	Null	Key	Default	Extra
M_id	varchar(10)	NO	PRI	NULL	
Mname	varchar(30)	YES		NULL	
code	int	YES		NULL	
qty	int	YES		NULL	
purchase_date	date	YES		NULL	
price	varchar(6)	YES		NULL	
usetocure	varchar(30)	YES		NULL	

FILE USED

❖ Python File

mx.py

ASSUMPTIONS AND VALIDATIONS

1. Mname and usetocure can't exceed 30 characters.
2. No two M_id are same for two records.
3. Once a purchase date is entered then it can't be changed.
4. M_id, code, price, qty are of integer type.
5. Mname, date, usetocure are of string type.
6. Purchase date should be in formate-"year-month-date"(yyyy-mm-dd).

CODING

```
import pymysql
def add_record():
    try:
        con=pymysql.connect(host="localhost",user="root",database="beant",passwd="1234")
        cl=con.cursor()
        ch="y"
        while ch=="y":
            M_id=int(input('enter medicine id : '))
            Mname=input("enter medicine's name: ")
            code=int(input("enter product code: "))
            qty=int(input("enter quantity :"))
            purchase_date=input("enter date of purchase(yyyy-mm-dd): ")
            price=int(input("enter price: "))
            usetocure=input("this medicine cures: ")
            query="insert into pharmacy values(%d,'%s',%d,%d,'%s',%d,'%s')"%(M_id,Mname,code,qty,purchase_date,price,usetocure)
            print(query)
            cl.execute(query)
            con.commit()
            ch=input('press y: ')
        except pymysql.Error as err:
            print(err)

def searchcode():
    try:
        con=pymysql.connect(host="localhost",user="root",database="beant",passwd="1234")
        cl=con.cursor()
        n=int(input("enter code to search: "))
        query="select* from pharmacy where code=%d"%n
        cl.execute(query)
        if cl.rowcount==0:
            print("record not found")
        else:
            record=cl.fetchone()
            M_id,Mname,code,qty,purchase_date,price,usetocure=record
            print('\nm_id=',M_id,'\nmname=',Mname,'\ncode=',code,'\nquantity=',qty,'\npurchased on=',purchase_date,'\nprice=',price,'\nit cures=',usetocure)
        except pymysql.Error as err:
            print(err)

def searchmname():
    try:
        con=pymysql.connect(host="localhost",user="root",database="beant",passwd="1234")
        cl=con.cursor()
        name=input("enter mname to search: ")
        query="select* from pharmacy where Mname='%s'%name
        cl.execute(query)
        if cl.rowcount==0:
            print("record not found")
        else:
            record=cl.fetchone()
            M_id,Mname,code,qty,purchase_date,price,usetocure=record
            print('\nm_id=',M_id,'\nmname=',Mname,'\ncode=',code,'\nquantity=',qty,'\npurchased on=',purchase_date,'\nprice=',price,'\nit cures=',usetocure)
        except pymysql.Error as err:
            print(err)

def searchcure():
    try:
        con=pymysql.connect(host="localhost",user="root",database="beant",passwd="1234")
        cl=con.cursor()
        cure=input("enter cure to search: ")
        query="select* from pharmacy where usetocure='%s'%cure
        cl.execute(query)
        if cl.rowcount==0:
            print("record not found")
        else:
            record=cl.fetchone()
            M_id,Mname,code,qty,purchase_date,price,usetocure=record
            print('\nm_id=',M_id,'\nmname=',Mname,'\ncode=',code,'\nquantity=',qty,'\npurchased on=',purchase_date,'\nprice=',price,'\nit cures=',usetocure)
        except pymysql.Error as err:
            print(err)
```

```

def display_all():
    try:
        con=pymysql.connect(host="localhost",user="root",database="beant",passwd="1234")
        cl=con.cursor()
        query="select* from pharmacy "
        cl.execute(query)
        if cl.rowcount==0:
            print("record not found")
        else:
            records=cl.fetchall()
            print('\n'*3)
            print("*****10,Pharmacy Details,*****10")
            print('M_id\tMname\tcode\tqty\tpurchase_date\tprice\tusetocure')
            for rec in records:
                M_id,Mname,code,qty,purchase_date,price,usetocure=rec
                print(M_id,'\t',Mname,'\t',code,'\t',qty,'\t',purchase_date,'\t',price,'\t',usetocure)
    except pymysql.Error as err:
        print(err)

def deleterec():
    try:
        con=pymysql.connect(host="localhost",user="root",database="beant",passwd="1234")
        cl=con.cursor()
        n=int(input("Enter Mid whose record you want to delete: "))
        query="select* from pharmacy where M_id=%d"%n
        cl.execute(query)
        if cl.rowcount==0:
            print("record not found")
        else:
            print("*****Details are*****")
            r=cl.fetchone()
            M_id,Mname,code,qty,purchase_date,price,usetocure=r
            print('\nm_id=',M_id,'\nmname=',Mname,'\ncode=',code,'\nquantity=',qty,'\npurchased on=',purchase_date,'\nprice=',price,'\nit cures=',usetocure)
            q="delete from pharmacy where M_id=%d"%n
            cl.execute(q)
            con.commit()
            print("record deleted successfully")
    except pymysql.Error as err:
        print(err)

def modify():
    try:
        con=pymysql.connect(host="localhost",user="root",database="beant",passwd="1234")
        cl=con.cursor()
        n=int(input("Enter M_id whose record you want to modify: "))
        query="select* from pharmacy where M_id=%d"%n
        cl.execute(query)
        if cl.rowcount==0:
            print("record not found")
        else:
            r=cl.fetchone()
            M_id,Mname,code,qty,purchase_date,price,usetocure=r
            print('\nm_id=',M_id,'\nmname=',Mname,'\ncode=',code,'\nquantity=',qty,'\npurchased on=',purchase_date,'\nprice=',price,'\nit cures=',usetocure)
            cod=int(input("enter new product code: "))
            qt=int(input("enter new quantity :"))
            pric=int(input("enter new price: "))
            usetocur=input("new medicine cure: ")
            q="update pharmacy set code=%d,qty=%d,price=%d,usetocure='%s' where M_id=%d"%(cod,qt,pric,usetocur,n)
            cl.execute(q)
            con.commit()
            print("record updated")
    except pymysql.Error as err:
        print(err)

while True:
    print("*****80")
    print(' '*20,'PHARMACY RECORD KEEPING SYSTEM',' '*20)
    print("*****80")
    print('1. ADD RECORD')
    print('2. DISPLAY RECORDS')
    print('3. SEARCH RECORD')
    print('4. DELETE RECORD')
    print('5. MODIFY')
    print('6. EXIT')
    ch=int(input('enter your choice from 1-6: '))
    print("\n\n\n")
    ch=int(input('enter your choice from 1-6: '))
    if ch==1:
        add_record()
    elif ch==2:
        display_all()
    elif ch==3:
        print("a.SEARCH CODE")
        print("b.SEARCH MNAME")
        print("c.SEARCH CURE")
        choice=input('enter choice to search a-c')
        if choice=='a':
            searchcode()
        elif choice=='b':
            searchmname()
        elif choice=='c':
            searchcure()
    elif ch==4:
        deleterec()
    elif ch==5:
        modify()
    else:
        quit()

```

SCREEN OUTPUT

BEFORE EXECUTION

```
mysql> select * from pharmacy;
```

M_id	Mname	code	qty	purchase_date	price	usetocure
101	aprepitant	64	80	2020-11-24	35	vomiting
102	tiger balm	33	45	2019-11-21	35	body/headaches
104	acyclovir	25	67	2020-05-08	85	viral infection
105	cefaclor	76	55	2019-07-28	65	infections
107	celecoxib	81	90	2018-12-15	200	acute pain
109	bosentan	22	95	2020-12-08	50	high blood pressure
201	dronabinol	9	67	2020-01-31	52	nausea
204	gabapentin	4	80	2019-06-11	250	seizures

8 rows in set (0.00 sec)

AFTER EXECUTION

```
***** PHARMACY RECORD KEEPING SYSTEM *****
*****
1. ADD RECORD
2. DISPLAY RECORDS
3. SEARCH RECORD
4. DELETE RECORD
5. MODIFY
6. EXIT
enter your choice from 1-6: 1
enter medicine id : 202
enter medicine's name: amitriptyline
enter product code: 74
enter quantity :76
enter date of purchase(yyyy-mm-dd): 2020-08-17
enter price: 170
this medicine cures: migraine headache
insert into pharmacy values(202,'amitriptyline',74,76,'2020-08-17',170,'migraine headache')
press y: SSS
```

```
mysql> select * from pharmacy;
```

M_id	Mname	code	qty	purchase_date	price	usetocure
101	aprepitant	64	80	2020-11-24	35	vomiting
102	tiger balm	46	39	2019-11-21	80	bodyaches
104	acyclovir	25	67	2020-05-08	85	viral infection
105	cefaclor	76	55	2019-07-28	65	infections
107	celecoxib	81	90	2018-12-15	200	acute pain
109	bosentan	22	95	2020-12-08	50	high blood pressure
202	amitriptyline	74	76	2020-08-17	170	migraine headache
204	gabapentin	4	80	2019-06-11	250	seizures

8 rows in set (0.03 sec)

```

*****
***** PHARMACY RECORD KEEPING SYSTEM *****
*****
1. ADD RECORD
2. DISPLAY RECORDS
3. SEARCH RECORD
4. DELETE RECORD
5. MODIFY
6. EXIT
enter your choice from 1-6: 2

***** Pharmacy Details *****
M_id  Mname  code  qty  purchase_date  price  usetocure
101   apreitant  64   80   2020-11-24    35   vomiting
102   tiger balm  46   39   2019-11-21    80   bodyaches
104   acyclovir  25   67   2020-05-08    85   viral infection
105   cefaclor  76   55   2019-07-28    65   infections
107   celecoxib  81   90   2018-12-15    200  acute pain
109   bosentan  22   95   2020-12-08    50   high blood pressure
202   amitriptyline  74   76   2020-08-17    170  migraine headache
204   gabapentin  4    80   2019-06-11    250  seizures

6.EXIT
enter your choice from 1-6: 3
a. SEARCH CODE
b. SEARCH MNAME
c. SEARCH CURE
enter choice to search a-ca
enter code to search: 33
record not found
*****
***** PHARMACY RECORD KEEPING SYSTEM *****
*****
1. ADD RECORD
2. DISPLAY RECORDS
3. SEARCH RECORD
4. DELETE RECORD
5. MODIFY
6. EXIT
enter your choice from 1-6: 3
a. SEARCH CODE
b. SEARCH MNAME
c. SEARCH CURE
enter choice to search a-cb
enter mname to search: tigerblame
record not found
*****
***** PHARMACY RECORD KEEPING SYSTEM *****
*****
1. ADD RECORD
2. DISPLAY RECORDS
3. SEARCH RECORD
4. DELETE RECORD
5. MODIFY
6. EXIT
enter your choice from 1-6: 3
a. SEARCH CODE
b. SEARCH MNAME
c. SEARCH CURE
enter choice to search a-cc
enter cure to search: bodyache
record not found

*****
***** PHARMACY RECORD KEEPING SYSTEM *****
*****
1. ADD RECORD
2. DISPLAY RECORDS
3. SEARCH RECORD
4. DELETE RECORD
5. MODIFY
6. EXIT
enter your choice from 1-6: 4
enter Mid whose record you want to delete: 202
*****Details are*****

m_id= 202
medname= amitriptyline
code= 74
quantity= 76
purchased on= 2020-08-17
price= 170
it cures= migraine headache
record deleted successfully

```

8 rows in set (0.03 sec)

mysql> select * from pharmacy;

M_id	Mname	code	qty	purchase_date	price	usetocure
101	apreitant	64	80	2020-11-24	35	vomiting
102	tiger balm	46	39	2019-11-21	80	bodyaches
104	acyclovir	25	67	2020-05-08	85	viral infection
105	cefaclor	76	55	2019-07-28	65	infections
107	celecoxib	81	90	2018-12-15	200	acute pain
109	bosentan	22	95	2020-12-08	50	high blood pressure
204	gabapentin	4	80	2019-06-11	250	seizures

7 rows in set (0.00 sec)

```

*****
***** PHARMACY RECORD KEEPING SYSTEM *****
*****
1. ADD RECORD
2. DISPLAY RECORDS
3. SEARCH RECORD
4. DELETE RECORD
5. MODIFY
6. EXIT
enter your choice from 1-6: 5
enter M_id whose record you want to modify: 102

m_id= 102
medname= tiger balm
code= 46
quantity= 39
purchased on= 2019-11-21
price= 80
it cures= bodyaches
enter new product code: 27
enter new quantity :53
enter new price: 75
new medicine cure: body/headache
record updated
*****

```

```
mysql> select * from pharmacy;
```

M_id	Mname	code	qty	purchase_date	price	usetocure
101	aprepitant	64	80	2020-11-24	35	vomiting
102	tiger balm	27	53	2019-11-21	75	body/headache
104	acyclovir	25	67	2020-05-08	85	viral infection
105	cefaclor	76	55	2019-07-28	65	infections
107	celecoxib	81	90	2018-12-15	200	acute pain
109	bosentan	22	95	2020-12-08	50	high blood pressure
204	gabapentin	4	80	2019-06-11	250	seizures

7 rows in set (0.01 sec)

BIBLIOGRAPHY AND LINKS USED

1. Class 12- Computer Science with Python by Preeti Arora
2. Class 11- Computer Science with Python by Preeti Arora
3. [St. Jude Children's Research Hospital](#)