***SINGHANIA EDUCATIONAL INSTITUTE***

Computer Science

Practical File 2023-24

**Name:**

**Class: Section:**

**Roll no:**

**Under the Guidance of:**

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**PGT (COMPUTER SCIENCE)**

**ACKNOWLEDGEMENT**

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ABOUT

Description:

this project is a menu driven program in python which aims to create a user- friendly way of manipulating databases in MySQL and extracting information from them.

Module:

This program is made using the concept of MYSQL and Mysql Connectivity and by using mysql.connector module

LanguAge used:

MYSQL 5.5 AND PYTHON 3.9

THE CODE :

import mysql.connector

c=mysql.connector.connect(user="root",host="localhost",passwd="4321",database="Gada\_Electronics")

d=c.cursor()

"""

d.execute("create table Phone(p\_no int(3),phone\_type varchar(20),phone\_name varchar(20),brand\_name varchar(20), model varchar(10),RAM int(3),ROM int(4),quantity int(5),price decimal(10,2))")

c.commit()

d.execute("create table TV(t\_no int(3),tv\_name varchar(20),brand\_name varchar(20),model varchar(18),Size varchar(8),quantity int(6),price decimal(10,2))")

c.commit()

d.execute("create table Laptop(l\_no int(3),laptop\_name varchar(20),brand\_name varchar(20),model varchar(18),RAM varchar(8),ROM varchar(8),quantity int(6),price decimal(10,2))")

c.commit()

"""

def offers():

while True:

print("---------------------")

print("\t1. Phone")

print("\t2. TV")

print("\t3. Laptop")

print("\t4. exit")

print("---------------------")

ch=int(input("enter choice"))

print("---------------------")

if ch==1:

print("---------------------")

print("A. 10% on price>40000")

print("B. 15% on price>60000")

print("C. 20% on price>80000")

print("---------------------")

elif ch==2:

print("---------------------")

print("A. 10% on price>30000")

print("B. 15% on price>50000")

print("C. 20% on price>70000")

print("---------------------")

elif ch==3:

print("---------------------")

print("A. 10% on price>40000")

print("B. 15% on price>80000")

print("C. 20% on price>100000")

print("D. free accessorize worth(14000)on price>90000")

elif ch==4:

break

def add\_r():

while True:

print("---------------------")

print("\t1. Phone")

print("\t2. TV")

print("\t3. Laptop")

print("---------------------")

ch=int(input("enter choice"))

print("---------------------")

if ch==1:

a=int(input("enter p\_no"))

b=input("enter phone type")

h=input("enter phone name")

i=input("enter brand name")

e=input("enter phone model number")

x=int(input("enter phone RAM"))

z=int(input("enter phone ROM"))

f=int(input("enter quantity"))

g=float(input("enter price(Rs)"))

d.execute("insert into Phone values({},'{}','{}','{}','{}',{},{},{},{})".format(a,b,h,i,e,x,z,f,g))

c.commit()

break

elif ch==2:

a=int(input("enter t\_no"))

b=input("enter TV name")

h=input("enter brand name")

i=input("enter model number")

x=int(input("enter tv size"))

e=int(input("enter quantity"))

f=float(input("enter price(Rs)"))

d.execute("insert into TV values({},'{}','{}','{}',{},{},{})".format(a,b,h,i,x,e,f))

c.commit()

break

elif ch==3:

a=int(input("enter l\_no"))

h=input("enter Laptop name")

i=input("enter brand name")

e=input("enter model number")

b=int(input("enter laptop RAM(Gb)"))

z=int(input("enter Laptop ROM(Gb)"))

f=int(input("enter quantity"))

g=float(input("enter price(Rs)"))

d.execute("insert into Laptop values({},'{}','{}','{}',{},{},{},{})".format(a,h,i,e,b,z,f,g))

c.commit()

break

def delete\_r():

while True:

print("---------------------")

print("\t1. Phone")

print("\t2. TV")

print("\t3. Laptop")

print("---------------------")

ch=int(input("enter choice"))

print("---------------------")

if ch==1:

i=int(input("enter p\_no for deletion"))

d.execute("delete from Phone where p\_no={}".format(i))

c.commit()

break

elif ch==2:

i=int(input("enter t\_no for deletion"))

d.execute("delete from TV where t\_no={}".format(i))

c.commit()

break

elif ch==3:

i=int(input("enter l\_no for deletion"))

d.execute("delete from Laptop where l\_no={}".format(i))

c.commit()

break

def disp\_r():

while True:

print("---------------------")

print("\t1. Phone")

print("\t2. TV")

print("\t3. Laptop")

print("---------------------")

ch=int(input("enter choice"))

print("---------------------")

if ch==1:

d.execute("select \* from Phone")

for i in d:

print(i)

break

elif ch==2:

d.execute("select \* from TV")

for i in d:

print(i)

break

elif ch==3:

d.execute("select \* from Laptop")

for i in d:

print(i)

break

def search\_r():

v=0

while v==:

print("---------------------")

print("\t1. Phone")

print("\t2. TV")

print("\t3. Laptop")

print("\t4. exit")

print("---------------------")

ch=int(input("enter choice"))

print("---------------------")

if ch==1:

print("\t0.p\_id")

print("\t1.phonename")

print("\t2.brandname")

print("\t3.modelno")

print("\t4.RAM")

print("\t5.storage")

print("\t6.price")

z=int(input("search by "))

if z==0:

f=int(input("enter p\_no for searching"))

d.execute("select \* from Phone where P\_no={}".format(f))

for i in d:

print(i)

elif z==1:

l=input("enter phone\_name for searching")

d.execute("select \* from Phone where phone\_name='{}'".format(l))

for i in d:

print(i)

elif z==2:

l=input("enter brand\_name for searching")

d.execute("select \* from Phone where brand\_name='{}'".format(l))

for i in d:

print(i)

elif z==3:

l=input("enter model\_no for searching")

d.execute("select \* from Phone where model='{}'".format(l))

for i in d:

print(i)

elif z==4:

l=input("enter RAM for searching")

d.execute("select \* from Phone where RAM={}".format(l))

for i in d:

print(i)

elif z==5:

l=input("enter Storage for searching")

d.execute("select \* from Phone where ROM={}".format(l))

for i in d:

print(i)

elif z==6:

l=int(input("enter min price for searching"))

m=int(input("enter max price for searching"))

d.execute("select \* from Phone where price between {} and {}".format(l,m))

for i in d:

print(i)

else:

print("enter valid choice")

elif ch==2:

print("\t0.t\_id")

print("\t1.TV name")

print("\t2.brand name")

print("\t3.model no")

print("\t4.Size")

print("\t5.price")

z=int(input("search by "))

if z==0:

f=int(input("enter t\_no for searching"))

d.execute("select \* from tv where t\_no={}".format(f))

for i in d:

print(i)

elif z==1:

l=input("enter tv name for searching")

d.execute("select \* from tv where tv\_name='{}'".format(l))

for i in d:

print(i)

elif z==2:

l=input("enter brand name for searching")

d.execute("select \* from tv where brand\_name='{}'".format(l))

for i in d:

print(i)

elif z==3:

l=input("enter model\_no for searching")

d.execute("select \* from tv where model='{}'".format(l))

for i in d:

print(i)

elif z==4:

l=input("enter size for searching")

d.execute("select \* from tv where Size='{}'".format(l))

elif z==4:

l=int(input("enter min price for searching"))

m=int(input("enter max price for searching"))

d.execute("select \* from tv where price between {} and {}".format(l,m))

for i in d:

print(i)

else:

print("enter valid choice")

elif ch==3:

print("\t0.l\_id")

print("\t1.Laptop name")

print("\t2.brand name")

print("\t3.modelno")

print("\t4.RAM")

print("\t5.ROM")

print("\t6.price")

z=int(input("search by "))

if z==0:

f=int(input("enter t\_no for searching"))

d.execute("select \* from laptop where t\_no={}".format(f))

for i in d:

print(i)

elif z==1:

l=input("enter laptop\_name for searching")

d.execute("select \* from laptop where laptop\_name='{}'".format(l))

for i in d:

print(i)

elif z==2:

l=input("enter brand\_name for searching")

d.execute("select \* from laptop where brand\_name='{}'".format(l))

for i in d:

print(i)

elif z==3:

l=input("enter model\_no for searching")

d.execute("select \* from laptop where model='{}'".format(l))

for i in d:

print(i)

elif z==4:

l=input("enter RAM for searching")

d.execute("select \* from laptop where RAM={}".format(l))

for i in d:

print(i)

elif z==5:

l=input("enter ROM for searching")

d.execute("select \* from laptop where ROM={}".format(l))

for i in d:

print(i)

elif z==5:

l=int(input("enter min price for searching"))

m=int(input("enter max price for searching"))

d.execute("select \* from tv where price between {} and {}".format(l,m))

for i in d:

print(i)

else:

print("enter valid choice")

elif ch==4:

break

def update\_r():

while True:

print("----------------------------------")

print("\t1. phone")

print("\t2. tv")

print("\t3. laptop")

print("\t4. exit")

print("----------------------------------")

ch=int(input("enter choice"))

print("----------------------------------")

if ch==1:

tt=int(input("enter p\_no for updation"))

print("1.phone type")

print("2.phonename")

print("3.brandname")

print("4.modelno")

print("5.RAM")

print("6.Storage")

print("7.quantity")

print("8.price")

bn=int(input("enter what you want to update "))

if bn==1:

p=input("enter new phone type")

d.execute("update Phone set phone\_type='{}' where p\_no={}".format(p,tt))

c.commit()

elif bn==2:

p=input("enter new phone name")

d.execute("update Phone set phone\_name='{}' where p\_no={}".format(p,tt))

c.commit()

elif bn==3:

p=input("enter new brand name")

d.execute("update Phone set brand\_name='{}' where p\_no={}".format(p,tt))

c.commit()

elif bn==4:

p=input("enter new model no")

d.execute("update Phone set model='{}' where p\_no={}".format(p,tt))

c.commit()

elif bn==5:

p=input("enter new RAM")

d.execute("update Phone set ram={} where p\_no={}".format(p,tt))

c.commit()

elif bn==6:

p=int(input("enter new Storage"))

d.execute("update Phone set rom={} where p\_no={}".format(p,tt))

c.commit()

elif bn==7:

p=int(input("enter new quantity"))

d.execute("update Phone set quantity={} where p\_no={}".format(p,tt))

c.commit()

elif bn==8:

p=int(input("enter new phone price"))

d.execute("update Phone set price={} where t\_no={}".format(p,tt))

c.commit()

else:

print("enter vaild choice")

elif ch==2:

tt=int(input("enter t\_no for updation"))

print("1.phonename")

print("2.brandname")

print("3.modelno")

print("4.size")

print("5.quantity")

print("6.price")

bn=int(input("enter what you want to update "))

if bn==1:

p=input("enter new TV name")

d.execute("update TV set tv\_name='{}' where t\_no={}".format(p,tt))

c.commit()

elif bn==2:

p=input("enter new brandname")

d.execute("update TV set brand\_name='{}' where t\_no={}".format(p,tt))

c.commit()

elif bn==3:

p=input("enter new TV modelno")

d.execute("update TV set modelno='{}' where t\_no={}".format(p,tt))

c.commit()

elif bn==4:

p=input("enter new TV Size")

d.execute("update TV set Size={} where t\_no={}".format(p,tt))

c.commit()

elif bn==5:

p=int(input("enter new TV quantity"))

d.execute("update TV set quantity={} where t\_no={}".format(p,tt))

c.commit()

elif bn==6:

p=int(input("enter new TV price"))

d.execute("update TV set price={} where t\_no={}".format(p,tt))

c.commit()

else:

print("enter vaild choice")

elif ch==3:

tt=int(input("enter l\_no for updation"))

print("1.Laptop name")

print("2.brand name")

print("3.model")

print("4.RAM")

print("5.ROM")

print("6.quantity")

print("7.price")

bn=int(input("enter what you want to update "))

if bn==1:

p=input("enter new Laptop type")

d.execute("update laptop set laptop\_name='{}' where l\_no={}".format(p,tt))

elif bn==2:

p=input("enter new brand name")

d.execute("update laptop set brand\_name='{}' where l\_no={}".format(p,tt))

elif bn==3:

p=input("enter new model no")

d.execute("update laptop set model='{}' where l\_no={}".format(p,tt))

elif bn==4:

p=input("enter new RAM")

d.execute("update laptop set RAM={} where l\_no={}".format(p,tt))

elif bn==5:

p=int(input("enter new ROM "))

d.execute("update laptop set ROM={} where l\_no={}".format(p,tt))

elif bn==6:

p=int(input("enter new quantity"))

d.execute("update laptop set quantity={} where l\_no={}".format(p,tt))

elif bn==7:

p=int(input("enter new price"))

d.execute("update laptop set price={} where l\_no={}".format(p,tt))

c.commit()

else:

print("enter vaild choice")

elif ch==4:

break

def bill():

d.execute("select \* from TV")

for i in d:

print(i)

dd=0

gt=0

while True:

n=int(input("enter t\_no for billing"))

d.execute("select \* from TV where t\_no={}".format(n))

for i in d:

print(i)

p=i[6]

z=i[5]

q=int(input("enter how many quantites you want to purchase"))

if p>=q:

t=p\*q

print(t)

gt=gt+t

z=z-q

d.execute("update tv set quantity={} where t\_no={}".format(z,n))

c.commit()

elif p<q:

print("not available in stock")

print("current stock",p)

kk=int(input("do you want to purchase more 1(no) or not 0(continue)"))

if kk==1:

break

print("total for TVs",gt)

print("phone")

d.execute("select \* from Phone")

for i in d:

print(i)

gt1=0

while True:

n=int(input("enter p\_no for billing"))

d.execute("select \* from Phone where p\_no={}".format(n))

for i in d:

print(i)

dk=i[8]

z=i[7]

q=int(input("enter how many quantites you want to purchase"))

if dk>=q:

t=dk\*q

print(t)

gt=gt+t

z=z-q

d.execute("update Phone set quantity={} where p\_no={}".format(z,n))

c.commit()

elif p<q:

print("not available in stock")

print("current stock",dk)

kk=int(input("do you want to purchase more 1(no) or not 0(continue)"))

if kk==1:

break

print("total for phone",gt1)

gt2=0

while True:

n=int(input("enter l\_no for billing"))

d.execute("select \* from Laptop where l\_no={}".format(n))

for i in d:

print(i)

dc=i[7]

z=i[6]

q=int(input("enter how many quantites you want to purchase"))

if dc>=q:

t=dc\*q

print(t)

gt=gt+t

z=z-q

d.execute("update laptop set quantity={} where l\_no={}".format(z,n))

c.commit()

elif p<q:

print("not available in stock")

print("current stock",dc)

kk=int(input("do you want to purchase more 1(no) or not 0(continue)"))

if kk==1:

break

print("total for laptops",gt2)

dd=gt+gt1+gt2

import math as m

dd=m.floor(dd)

if dd>30000:

dis=dd-dd\*0.10

print("final amount after discount=",dis)

print("amount you saved=",dd\*0.10)

elif dd>50000:

dis=gt-gt\*0.15

print("final amount after discount=",dis)

print("amount you saved=",dd\*0.15)

elif dd>70000:

dis=gt-gt\*0.20

print("final amount after discount=",dis)

print("amount you saved=",dd\*0.20)

else:

pass

print("final amount:",dis)

print("-------------main menu--------------")

v=0

while v==0:

print("---------------------")

print("1. offers")

print("2. add a record")

print("3. delete a record")

print("4. display")

print("5. search a record")

print("6. update a record")

print("7. bill")

print("8. exit")

ch=int(input("enter choice"))

if ch==1:

offers()

elif ch==2:

add\_r()

elif ch==3:

delete\_r()

elif ch==4:

disp\_r()

elif ch==5:

search\_r()

elif ch==6:

update\_r()

elif ch==7:

bill()

print("---------------- BYE -------------------")

print("------- Thanks For Your Visit, Come Again ---------")

v=1

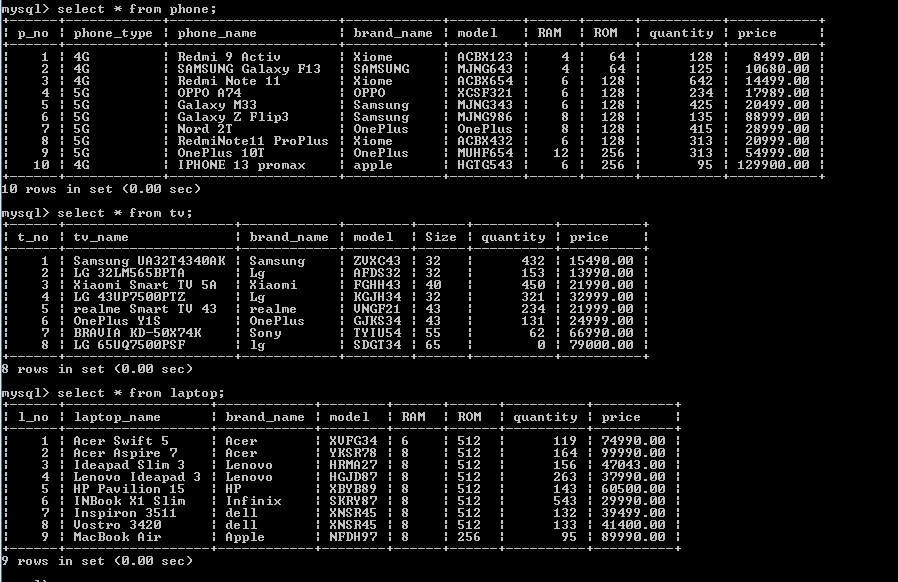
elif ch==8:

v=1

else:

print("enter valid choice")

Output:-



**Bibliography**

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* Computer Science with Preeti Arora
* www.w3resource.com
* Under the guidance of subject teacher