ELECTRONICS SHOP MANAGEMENT





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CERTIFICATE

This is to certify that the project entitled "ELECTRONICS SHOP MANAGEMENT", which deals making bills and customer accounts and product handling is submitted by Dinesh Grover, Ojas Chaudhary and Vaibhav Pathak. This project is bona fide piece of work carried out with the consultation of supervisor.

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ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany the successful completion of any task would not be completed without mentioning the name of the people whose constant guidance and encouragement has crowed all our effort with success.

"THANK YOU". These two words are very less to be measured when it comes to extend our gratitude towards all those who have made our project a memorable experience.

We own our sincere and whole hearted thanks to MVN SCHOOL who allowed us to make project report on ELECTRONIC SHOP MANAGEMENT. Also we are grateful to MS.PRAGYA, our teacher for constantly guiding us and tackling a variety of hurdle with implicit patience throughout our research project infused in us a great inspiration and confidence in taking up this study in right direction.

Words cannot express our sincere thanks to **CBSE BOARD** who had been a constant source of guidance and give us a chance to make a project.

Also we are sincerely thankful to all the respondents of the questionnaire who spared their valuable time. And last but not the least we would like to convey our heartiest thanks to our parents and friends with whose support and guidance this assignment of ours is successfully accomplished.

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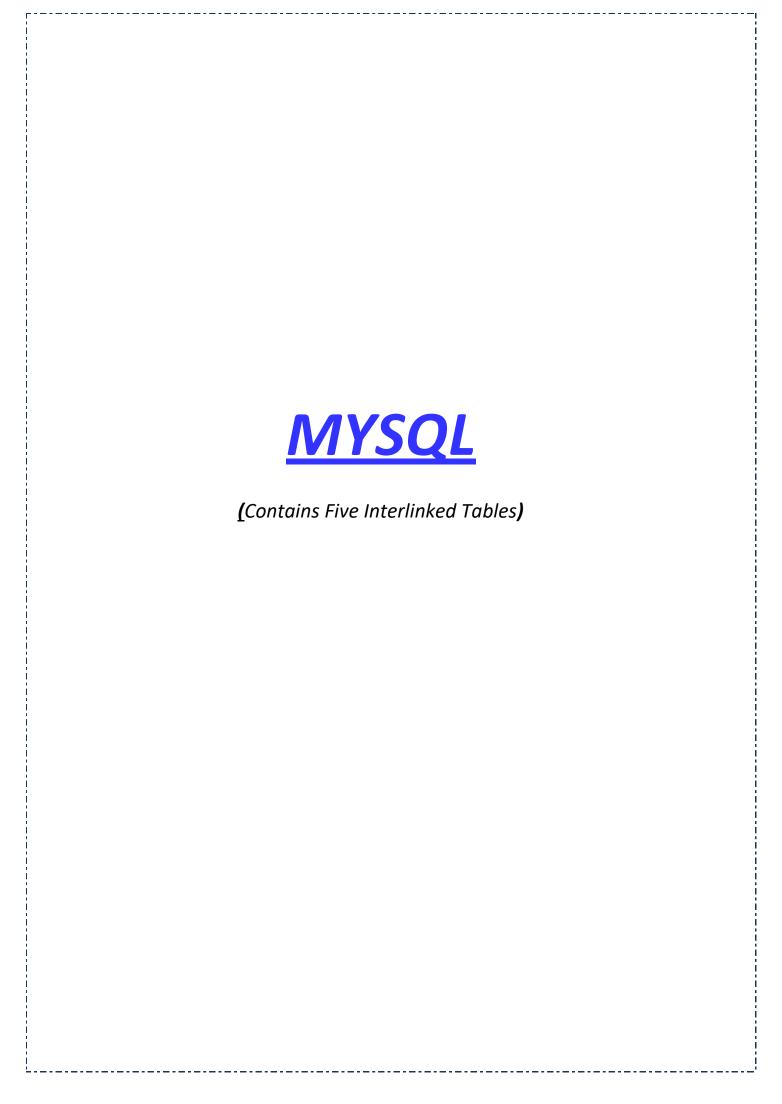
System Description at a Glance

Electronic shop management provides a system that contains table for a product, customer, invoice, warranty, offers. This system provides access to customer and staff of the shop & the admin. It is a system that can make bills and customer account and auto generate bill amount. These are following activities in the management system:

- 1) Enter as an administrator, employee or a customer
- 2) Add and update records by login as an administrator or employee
- 3) Create an invoice and customer account for the customer and apply given offers
- 4) Show the customer invoice by mobile number verification when entered as a customer

user can add or update data from any table when entered as an admin. When entered an employee the user can create a customer account and invoice and also hold the right to see all records in all the 5 tables. Customer can see their invoice and offers available to him when entered as customer. There exists a password protection when entering as an administrator or employee.

First the user needs to log in as one of the before mentioned categories. Now the



1)Table products:

Field	Туре	Null	Key	Default	Extra
s_no name model_no price	int varchar(20) varchar(20) int	NO NO NO NO	PRI	NULL NULL NULL NULL	

create table products(

s_noint NOT NULL,

namevarchar(20) NOT NULL,

model_novarchar(20) PRIMARY KEY,

priceint NOT NULL);

2)Table Invoice:

Field	Type	Null	Key	Default	Extra
invoice_no product1 product2 product3 bill_amt DOP	int varchar(20) varchar(20) varchar(20) int date	NO NO YES YES NO YES	PRI MUL MUL MUL 	NULL NULL NULL NULL	DEFAULT_GENERATE DEFAULT_GENERATE

create table invoice(

invoice_noint PRIMARY KEY,

product1varchar(20) NOT NULL,

product2varchar(20) DEFAULT('000000000000000000'),

product3varchar(20) DEFAULT('000000000000000000'),

bill_amtint NOT NULL,

DOP date,

FOREIGN KEY(product1) REFERENCES products(model_no),

FOREIGN KEY(product2) REFERENCES products(model_no),

FOREIGN KEY(product3) REFERENCES products(model_no));

3)Table Customer:

+ Field +	+ Туре	Null	 Key	Default	Extra
customer_ID	varchar(6)	NO	PRI	NULL	
name	varchar(20)	NO		NULL	
mobile_num	varchar(10)	NO		NULL	
invoice_no	int	NO	MUL	NULL	

```
create table customer(
customer_IDvarchar(6) PRIMARY KEY,
namevarchar(20) NOT NULL,
mobile_numvarchar(10) NOT NULL,
invoice_noint NOT NULL,
FOREIGN KEY(invoice_no) REFERENCES invoice(invoice_no));
```

4)Table Warranty:

Field	Туре	Null	Key	Default	Extra
product_name model_no start_date end_date	varchar(20) varchar(20) date date		 PRI 	NULL NULL sysdate() (`start_date` + interval 2 year)	DEFAULT_GENERATED DEFAULT_GENERATED

```
create table warranty(

product_namevarchar(20) NOT NULL,

model_novarchar(20) PRIMARY KEY,

start_date date DEFAULT(sysdate()),

end_date date DEFAULT(DATE_ADD(start_date,INTERVAL 2 YEAR)),

FOREIGN KEY(model_no) REFERENCES products(model_no),

CONSTRAINT CHK_DATE CHECK(end_date>=DATE_ADD(start_date,INTERVAL 2 YEAR)));
```

5)Table Offers:

+ Field	Туре	Null	Key	Default	Extra
off_code Discount_per model_no p_name	varchar(4) int varchar(20) varchar(20)	NO YES NO NO	PRI MUL	NULL 0 NULL NULL	DEFAULT_GENERATED

create table offers(

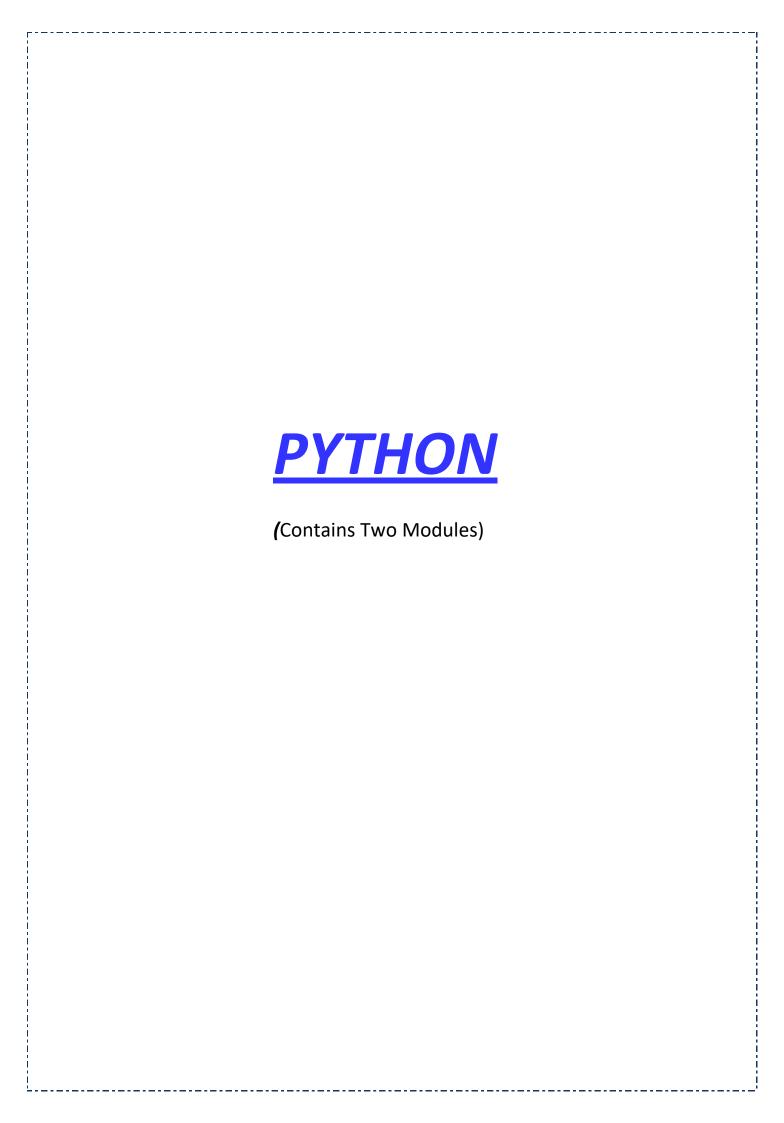
off_codevarchar(4) PRIMARY KEY,

Discount_perintDEFAULT(0),

model_novarchar(20) NOT NULL,

p_namevarchar(20) NOT NULL,

FOREIGN KEY(model_no) REFERENCES products(model_no));



Front End

```
#running module
import mysql.connector as myconn
import BACK_END as pack
mycon=myconn.connect(host='localhost',user='root',passwd='vvvvvvvp14',database='project')
print('_____
print()
print('WELCOME TO GADA ELECTRONICS')
                                                                        _')
print('
def admin(b):
   if b==1:
      print('in table Products')
      pack.add_p()
   elif b==2:
       print('in table Customer')
       pack.add_cust()
   elif b==3:
       print('in table Invoice')
       pack.add_invoice()
   elif b==4:
       print('in table Warranty')
       pack.add_warranty()
   elif b==5:
       print('in table offers')
       pack.add offer()
   elif b==6:
       pack.update_tables()
   elif b==0:
._.__Joop()._._.
```

```
def employee(b):
    if b==1:
         print('in table Customer')
         pack.add_cust()
    elif b==2:
         print('in table Invoice')
         pack.add_invoice()
    elif b==3:
         print('Products')
         pack.show_p()
    elif b==4:
         print('Customers')
         pack.show_cust()
    elif b==5:
         print('Invoices')
         pack.show_invoice()
    elif b==6:
         print('Warranty')
         pack.show_warranty()
    elif b==7:
         print('Offers')
         pack.show_offer()
    elif b==0:
         loop()
def cust(b):
  if b==1:
    pack.show_cust_invoice()
  elif b==2:
    pack.show_offer()
  elif b==0:
```

```
#show_cust_invoice shows only one user record
def loop():
  flag=False
  a=int(input("'Enter as
  1.Admin
  2.Employee
  3.Customer
  \nenter 0 to close\t:\")
  while a!=0:
    if a==1:
      if flag==False:
        passwd=int(input('enter Admin password'))
        if passwd==706968:
          print("
  Welcome back Admin'")
          flag=True
        else:
          print('WRONG PASSWORD')
          continue
      b=int(input('''
  enter 1 to add product
  enter 2 to add customer
  enter 3 to add invoice
  enter 4 to add warranty
  enter 5 to add offer
  enter 6 to update tables
  enter 0 to return\t'"))
      admin(b)
      #loop(a)
   <u>elif_a==2:</u>______
```

```
if flag==False:
        passwd=int(input('enter employee password'))
        if passwd==345600:
           print('''
  Welcome back employee'")
          flag=True
        else:
           print('WRONG PASSWORD')
           continue
        #using loop in employee
      b=int(input(""
  enter 1 to add customer
  enter 2 to add invoice
  enter 3 to show products
  enter 4 to show customer
  enter 5 to show invoice
  enter 6 to show warranty
  enter 7 to show offers
  enter 0 to return\t:"))
      employee(b)
    elif a==3:
      b=int(input('''
  enter 1 to see your invoice
  enter 2 to see all offers
  or enter 0 to return"))
      cust(b)
loop(()
```

Back End

```
import mysql.connector as myconn
mycon=myconn.connect(host='localhost',user='root',passwd='vvvvvvvp14',database='project')
def auto_s_no():
#to auto generate s number when used
 cursor=mycon.cursor()
 cursor.execute('select MAX(s_no) from products')
 data=cursor.fetchall()
 s_no=0
 for a in data:
  s_no=a[0]+1
 return s_no
def auto_cust_ID():
#to auto fill the customer ID column when used
 cursor=mycon.cursor()
 cursor.execute('select MAX(customer_ID) from customer')
 data=cursor.fetchall()
 for a in data:
  cust ID="
  for b in range(2,len(a[0])):
   cust_ID+=a[0][b]
  cust_ID=int(cust_ID)+1
  cust_ID=str(cust_ID)
  if len(cust_ID)==1:
   cust ID='GE000'+cust ID
  elif len(cust_ID)==2:
   cust_ID='GE00'+cust_ID
  elif len(cust_ID)==3:
  _cust_ID='GE0'+cust_ID_____
```

```
elif len(cust ID)==4:
   cust ID='GE'+cust ID
  else:
   cust_ID='ERROR(customer ID too long)'
 return cust ID
def auto_invoice_no():
#to auto generate invoice number when used
 cursor=mycon.cursor()
 cursor.execute('select MAX(invoice_no) from invoice')
 data=cursor.fetchall()
 for a in data:
  return (a[0]+1)
def auto_bill_amt(a,b,c):
#to automatically fill the bill amount when used
 amt=0
 for q in [a,b,c]:
  cursor=mycon.cursor()
  price=('select price from products where model_no IN (%s)')
  data price=(q,)
  cursor.execute(price,data_price)
  data=cursor.fetchall()
  amt+=data[0][0]
 return amt
def update_tables():
  cursor=mycon.cursor()
  Currently entered data in tables of database'")
  table=int(input("enter 1 for products
enter 2 for customer
enter 3 for invoice
enter 4 for offers \t:'''))
```

```
if table==1:
     print(""\nIn PRODUCTS you can only update the following column(s)
a=int(input('''\nDo you want to a specific row or whole column(s) to be updated
enter 1 for row
enter 0 for whole column(s)\t:"'))
     if a==1:
       update products=('UPDATE PRODUCTS SET price=%s WHERE model no=%s')
       model_no=input('\nenter the model no. of the product\t:')
       new price=int(input('enter new price\t :'))
       data_products=(new_price,model_no)
       cursor.execute(update products,data products)
       mycon.commit()
     elif a!=1:
       update_products=("UPDATE PRODUCTS SET price=%s * price")
       new price percent=input('\nenter new price increase inpercent:')
       new price percent=int(new price percent)
       new_price_percent=(new_price_percent+100)/100
       new price percent=str(new price percent)
       print(new_price_percent,type(new_price_percent))
       update_products=('update PRODUCTS SET price='+new_price_percent+'*price')
       cursor.execute(update products,new price percent)
       mycon.commit()
  elif table==2:
     print(""\nIn CUSTOMER you can only update the following column(s)
*******************name,mobile number***********
And the update can only be made to a row at once'")
     a=int(input("'\nDo you want to update both or one of those column(s)
enter 1 for name only
enter 2 for mobile number only
```

```
enter 0 for both\t:"))
    if a==1:
      update customer=('UPDATE CUSTOMER SET name=%s WHERE customer ID=%s')
      customer_ID=input('\nenter the customer_ID\t:')
      new name=input('enter new name\t:')
      data customer=(new name,customer ID)
      cursor.execute(update_customer,data_customer)
      mycon.commit()
    elif a==2:
      update product=('UPDATE CUSTOMER SET mobile num=%s WHERE customer ID=%s')
      customer_ID=input('\nenter the customer_ID\t:')
      new mobile num=int(input('enter new mobile no\t:'))
      data customer=(new mobile num,customer ID)
      cursor.execute(update_customer,data_customer)
      mycon.commit()
    elif a==0:
      update_product=('UPDATE CUSTOMER SET name=%s,mobile num=%s WHERE
customer ID=%s')
      customer_ID=input('\nenter the customer_ID\t:')
      new_name=input('enter new name\t:')
      new mobile num=int(input('enter new mobile no\t:'))
      data_customer=(new_name,new_mobile_num,customer_ID)
      cursor.execute(update_customer,data_customer)
      mycon.commit()
  elif table==3:
    print(""\nIn INVOICE you can only update the following column(s)
And the update can only be made to a row at once'")
    update invoice=('UPDATE INVOICE SET DOP=%s WHERE invoice no=%s')
    invoice_no=input('\nenter the invoice_no\t:')
    new_DOP=input('enter new DOP\t:')
    data invoice=(new DOP,invoice no)
```

```
cursor.execute(update_invoice,data_invoice)
    mycon.commit()
  elif table==4:
    print(""\nIn OFFERS you can only update the following column(s)
And the update can be to a row only at once'")
    update_offers=('UPDATE offers SET Discount_per=%s WHERE off_code=%s')
    off_code=input('\nenter off_code\t:')
    new_Discount_per=int(input('enter the Discount_per\t:'))
    data offers=(new Discount per,off code)
    cursor.execute(update_offers,data_offers)
    mycon.commit()
  else:
     print('\n*****NOT*A*TABLE*YOU*CAN*UPDATE*******')
def add p():
           #s_no to be auto generated
  cursor=mycon.cursor()
  add_product=('INSERT INTO PRODUCTS'
      '(s_no, name, model_no, price)'
      'values(%s,%s,%s,%s)')
  s_no=auto_s_no()
  print('Serial number\t:',s_no)
  name=input('enter name of product')
  model_no=input('enter model number of product')
  price=int(input('enter price of product'))
  data_product=(s_no,name ,model_no,price)
  #insertion into table
  cursor.execute(add_product,data_product)
  .mycon.commit()
```

```
print('executed')
#insertion of a customer
invoice no=0
def add_cust():
  global invoice_no
  add_customer=('INSERT INTO CUSTOMER'
         '(invoice_no,name,mobile_num,customer_id)'
         'values(%s,%s,%s,%s)')
  invoice_no=int(input('enter invoice number :'))
  name=input('enter customer name :')
  mobile_num=input('enter mobile number :')
  cust id=auto cust ID()
  print('Customer ID\t :',cust_id)
  data_customer=(invoice_no,name,mobile_num,cust_id)
  #insertion into table
  cursor=mycon.cursor()
  cursor.execute(add customer,data customer)
  mycon.commit()
  print("executed")
def add_invoice():
  #global invoice_no
  #bill amount and invoice number auto generated
  num=int(input('enter number of product(1-3)')
  invoice no=auto invoice no()
  print('Invoice number\t:',invoice_no)
  product1=input('enter model number of product 1:')
  #arranging invoice according to product purchased
  if num==3:
    add in=('INSERT INTO INVOICE'
        '(invoice no,product1,product2,product3,bill amt,dop)'
        'values(%s,%s,%s,%s,%s,%s)')
```

```
product2=input('enter model number of product 2:')
    product3=input('enter model number of product 3:')
    bill amt=auto bill amt(product1,product2,product3)
    dop=input('enter date of purchase
                                       :')
    data in=(invoice no,product1,product2,product3,bill amt,dop)
    print('Amount to be paid\t:',bill_amt)
  elif num==2:
    add in=('INSERT INTO INVOICE'
        '(invoice_no,product1,product2,bill_amt,dop)'
        'values(%s,%s,%s,%s,%s)')
    product2=input('enter model number of product 2:')
    bill_amt=auto_bill_amt(product1,product2,'0000000000000000000000)
    dop=input('enter date of purchase
                                       :')
    data_in=(invoice_no,product1,product2,bill_amt,dop)
    print('Amount to be paid\t:',bill_amt)
  elif num==1:
    add in=('INSERT INTO INVOICE'
        '(invoice_no,product1,bill_amt,dop)'
        ' values(%s,%s,%s,%s)')
    dop=input('enter date of purchase
                                       :')
    data_in=(invoice_no,product1,bill_amt,dop)
    print('Amount to be paid\t:',bill amt)
  else:
    print('enter number between 1-3')
    add_invoice()
  cursor=mycon.cursor()
  cursor.execute(add in,data in)
  mycon.commit()
  print("executed")
<u>def add_warranty():</u>
```

```
cursor=mycon.cursor()
  year=int(input("enter number of years of warranty
  or press enter 0 for current date""))
  p_name=input('enter name of product')
  model_no=input('enter model number of product')
  if year==0:
    add warranty=('INSERT INTO warranty'
        '(product_name,model_no)'
        'values(%s,%s)')
    data_warranty=(p_name,model_no)
  elif year!=0:
    end_date=input('enter the end date')
    add_warranty=('INSERT INTO warranty'
        '(product_name,model_no,end_date)'
        'values(%s,%s,%s)')
    data_warranty=(p_name,model_no,end_date)
  cursor.execute(add_warranty,data_warranty)
  mycon.commit()
  print("executed")
def add_offer():
  add_offer=('INSERT INTO offers VALUES(%s,%s,%s,%s)')
  off code=input('enter offer code :')
  off name=input('enter offer name :')
  model_no=input('enter model number :')
  Discount_per=int(input('enter Discount percentage:'))
  data_offers=(off_code,Discount_per,model_no,off_name)
  cursor=mycon.cursor()
  cursor.execute(add offer,data offers)
  mycon.commit()
  print("executed")
```

```
def show_p():
  cursor=mycon.cursor()
  cursor.execute('select * from products order by s_no')
  data=cursor.fetchall()
  for row in data:
    print(row)
def show_cust():
  cursor=mycon.cursor()
  cursor.execute('select * from customer order by customer_id')
  data=cursor.fetchall()
  for row in data:
    print(row)
def show_invoice():
  cursor=mycon.cursor()
  cursor.execute('select * from invoice')
  data=cursor.fetchall()
  for row in data:
    print(row)
def show_offer():
  cursor=mycon.cursor()
  cursor.execute('select * from offers order by off_code')
  data=cursor.fetchall()
  for row in data:
    print(row)
def show_warranty():
 cursor=mycon.cursor()
 cursor.execute('select * from warranty')
 data=cursor.fetchall()
 for row in data:
   print(row)
_def show_cust_invoice():
```

```
mob_no=input('Confirm your mobile_no')
cursor=mycon.cursor()
cursor.execute("select * from customer where mobile_num="+mob_no)
fake_data=cursor.fetchone()
invoice_no_ex=fake_data[0]
#showing invoice from invoice number extracted
invoice_no_ex=str(invoice_no_ex)
cursor=mycon.cursor()
cursor.execute("select * from invoice where invoice_no="+invoice_no_ex)
data=cursor.fetchone()
print(data)
```