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SOURCE CODE

```
import mysql.connector

import datetime

from tabulate import tabulate


db=input("Enter name of your database : ")


mydb=mysql.connector.connect(host='localhost',user='root',passwd='suraj@2005')

mycursor=mydb.cursor()


sql="CREATE DATABASE if not exists %s" %(db,)

mycursor.execute(sql)

print("Database created Successfully..")

mycursor=mydb.cursor()

mycursor.execute("Use "+db)

TableName=input("Name of Table to be created:")

query="Create table if not exists "+TableName+" \
(empno int primary key,\
```

```
name varchar(15) not null,\
```

```
job varchar(15),\
```

```
BasicSalary int,\
```

DA float,\

HRA float,\

GrossSalary float,\

Tax float,\

NetSalary float)"

```
print("Table "+TableName+" created succesfully...")
```

```
mycursor.execute(query)
```

while True:

```
print('\n\n\n')
```

```
print("*"*95)
```

```
print("\t\t\t\tASA COMPANY MAIN MENU")
```

```
print("*"*95)
```

```
print('\t\t\t1. Adding Employee records')
```

```
print("\t\t\t2. For Displaying Record of ALL the Employees')
```

```
print("\t\t\t3. For displaying Record of a particular Employee')
print("\t\t\t4. For deleting Records of all Employees')
print("\t\t\t5. For Deleting a records of a particular employee')
print("\t\t\t6. For Modification in a record')
print("\t\t\t7. For displaying payroll ')
print("\t\t\t8. For displaying Salary Slip for all the Employees')
print("\t\t\t9. For displaying salary slip for a particular
Employee')

print("\t\t\t10.For Exit')
print('Enter Choice...',end=")
choice=int(input())
if choice==1:
    try:
        print('Enter employee information.....')
        mempno=int(input('Enter employee no:'))
        mname=input('Enter employee name:')
        mjob=input("Enter employee job:")
        mbasic=float(input("Enter basic salary:"))
        if mjob.upper()=='OFFICER':
            mda=mbasic*0.5
```

```
    mhra=mbasic*0.35

    mtax=mbasic*0.2

elif mjob.upper()=='MANAGER':

    mda=mbasic*0.45

    mhra=mbasic*0.30

    mtax=mbasic*0.15

else:

    mda=mbasic*0.40

    mhra=mbasic*0.25

    mtax=mbasic*0.1

mgross=mbasic+mda+mhra

mnet=mgross-mtax

rec
=(mempno,mname,mjob,mbasic,mda,mhra,mgross,mtax,mnet)

    query="insert into "+TableName+"
values(%s,%s,%s,%s,%s,%s,%s,%s,%s)"

    mycursor.execute(query,rec)


mydb.commit()

print("Record added successfully....")
```

```
except Exception as e:
```

```
    print("Something went wrong",e)
```

```
elif choice==2:
```

```
    try:
```

```
        query='select*from '+TableName
```

```
        mycursor.execute(query)
```

```
        #print query
```

```
        print(tabulate(mycursor,
```

```
headers=['EnpNo','Name','Job','Basic Salary','DA','HRA','Gross  
Salary','Tax','Net Salary'],tablefmt='psql'))
```

```
        ""myrecords=mycursor.fetchall()
```

```
        for rec in myrecords:
```

```
            print(rec)""
```

```
    except:
```

```
        print('Something wenr worng')
```

```
elif choice==3:
```

```
    try:
```

```
        en=input('Enter employee no. of the record to be  
displayed.....')
```

```
        query="select*from "+TableName+" where empno="+en
```

```
        mycursor.execute(query)
```

```
        myrecord=mycursor.fetchone()
```

```
        print("\n\nRecord of Employee No.:"+en)
```

```
        print(myrecord)
```

```
        c=mycursor.rowcount
```

```
        if c==-1:
```

```
            print("Nothing to display")
```

```
    except:
```

```
        print("something went wrong")
```

```
elif choice==4:
```

```
    try:
```

```
        ch=input("Do you want to delete all the records (y/n)")
```

```
        if ch.upper()=='Y':
```

```
mycursor.execute('delete from '+TableName)
```

```
mydb.commit()
```

```
print("All the records are deleted.....")
```

```
except:
```

```
    print("something went wrong")
```

```
elif choice==5:
```

```
    try:
```

```
        en=input('Enter employee no. of the record to be deleted...')
```

```
        query='delete from '+TableName+' where empno='+en
```

```
        mycursor.execute(query)
```

```
        mydb.commit()
```

```
        c=mycursor.rowcount
```

```
        if c>0:
```

```
            print('deletion done')
```

```
        else:
```

```
            print('Employee no ',en,' not found')
```

```
    except:
```



```
print('something went wrong')
```

```
elif choice==6:
```

```
    try:
```

```
        en=input('Enter employee no. of the record to be  
modified...')
```

```
        query='select*from '+TableName+' where empno='+en
```

```
        mycursor.execute(query)
```

```
        myrecord=mycursor.fetchone()
```

```
        c=mycursor.rowcount
```

```
        if c==-1:
```

```
            print('Empno '+en+' does not exist')
```

```
        else:
```

```
            mname=myrecord[1]
```

```
            mjob=myrecord[2]
```

```
            mbasic=myrecord[3]
```

```
            print('empno  :',myrecord[0])
```

```
            print('name   :',myrecord[1])
```

```
            print('job    :',myrecord[2])
```

```

print('basic :',myrecord[3])
print('da    :',myrecord[4])
print('hra   :',myrecord[5])
print('gross :',myrecord[6])
print('tax   :',myrecord[7])
print('net   :',myrecord[8])
print('-----')

print("type Value to modify belof or just press 'Enter
key' for no change")

x=input("Enter name ")
if len(x)>0:
    mname=x

x=input("Enter job ")
if len(x)>0:
    mjob = x

x=input('Enter basic salary ')
if len(x)>0:
    mbasic=float(x)

query='update '+TableName+' set
name='+"""+mname+"""+','+'job='+"""+mjob+"""+','+'basicsalary='\

```

```
+str(mbasic)+' where empno='+en  
print(query)  
mycursor.execute(query)  
mydb.commit()  
print("Record modified")
```

```
except Exception as e:
```

```
    print("something went worng",e)
```

```
elif choice==7:
```

```
    try:
```

```
        query='select*from '+TableName
```

```
        mycursor.execute(query)
```

```
        myrecords=mycursor.fetchall()
```

```
        print("\n\n\n")
```

```
        print(95*'*')
```

```
        print("ASA COMPANY Employee Payroll".center(90))
```

```
        print(95*'*')
```

```
        now= datetime.datetime.now()
```

```

print("Current Date and Time:",end=")

print(now.strftime('%Y-%m-%d %H:%M:%S'))

print()

print(95*'-')

print('%-5s %-15s %-10s %-8s %-8s %-8s %-9s %-8s %-
9s\

%('Empno','Name','Job','Basic','DA','HRA','Gross','Tax','Net'))

print(95*'-')

for rec in myrecords:

    print('%4d %-15s %-10s %8.2f %8.2f %8.2f %9.2f
%8.2f %9.2f'%rec)

print(95*'-')

except Exception as e:

    print("something went wrong",e)


elif choice==8:

    try:

        query="select*from "+TableName

        mycursor.execute(query)

```

```
now=datetime.datetime.now()

print("\n\n\n")

print("-"*95)

print("\t\tASA COMPANY SALARY SLIP")

print("-"*95)

print("Current Date and Time:",end=' ')

print(now.strftime("%Y-%m-%d %H:%M:%S"))

myrecords=mycursor.fetchall()

for rec in myrecords:

    print('%4d %-15s %-10s %8.2f %8.2f %8.2f %9.2f
%8.2f %9.2f'%rec)

except Exception as e:

    print("Something went wrong",e)


elif choice==9:


try:


    en=input("Enter employee number whose pay slip you
want to retrieve:")
```

```
query='select*from '+TableName+' where empno='+en
mycursor.execute(query)

now= datetime.datetime.now()

print("\n\n\n\t\tASA GROUP OF COMPANY SALARY
SLIP")

print("Current Date and Time:",end=' ')

print(now.strftime("%Y-%m-%d %H:%M:%S"))

#print(query)

print(tabulate(mycursor,
headers=['EnpNo','Name','Job','Basic Salary','DA','HRA','Gross
Salary','Tax','Net Salary'],tablefmt='psql'))


except Exception as e:

    print("Something went wrong",e)


elif choice==10:


break
```

else:

print("Wrong choice.....")

print("-----", "THANK YOU VISIT AGAIN TO ASA
COMPANY", "-----")

OUTPUT

CREATING DATABASE

```
>>> ===== RESTART: D:\PYTHON\project\ASA COMPANY PAYROLL MANAGMENT.py =====
Enter name of your database : PAYROLL
Database created Successfully..
Name of Table to be created:PAY
Table PAY created succesfully...

*****
                          ASA COMPANY MAIN MENU
*****
1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...|
```

ADDING EMPLOYEE RECORDS

```
*IDLE Shell 3.11.2*
File Edit Shell Debug Options Window Help

*****
                          ASA COMPANY MAIN MENU
*****
1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...1
Enter employee information....
Enter employee no:201
Enter employee name:Ashutosh
Enter employee job:officer
Enter basic salary:26752
Record added successfully....
```


Displaying records of all Employees

```
*IDLE Shell 3.11.2*
File Edit Shell Debug Options Window Help

*****
          ASA COMPANY MAIN MENU
*****

1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...2

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EnpNo | Name   | Job    | Basic Salary | DA  | HRA  | Gross Salary | Tax  | Net Salary |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 201   | Ashutosh | officer | 26752 | 13376 | 9363.2 | 49491.2 | 5350.4 | 44140.8 |
| 202   | Suraj   | manager | 42658 | 19196.1 | 12797.4 | 74651.5 | 6398.7 | 68252.8 |
| 203   | Aditiya | clerk   | 18674 | 7469.6 | 4668.5 | 30812.1 | 1867.4 | 28944.7 |
| 204   | Parthivi | assistant | 17456 | 6982.4 | 4364   | 28802.4 | 1745.6 | 27056.8 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

Displaying record of a particular Employee

```
*IDLE Shell 3.11.2*
File Edit Shell Debug Options Window Help

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

*****
          ASA COMPANY MAIN MENU
*****

1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...3
Enter employee no. of the record to be displayed.....202

Record of Employee No.:202
(202, 'Suraj', 'manager', 42658, 19196.1, 12797.4, 74651.5, 6398.7, 68252.8)
```

Modification in a record

```
*****
                          ASA COMPANY MAIN MENU
*****

1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...6
Enter employee no. of the record to be modified...203
empno   : 203
name    : Aditiya
job     : clerk
basic   : 18674
da      : 7469.6
hra     : 4668.5
gross   : 30812.1
tax     : 1867.4
net     : 28944.7
-----
type Value to modify below or just press 'Enter key' for no change
Enter name Aditiya
Enter job Major
Enter basic salary 89476
update PAY set name='Aditiya',job='Major',basicsalary=89476.0 where empno=203
Record modified
```

Displaying Payroll

IDLE Shell 3.11.2

File Edit Shell Debug Options Window Help

```
*****
                          ASA COMPANY MAIN MENU
*****

1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...7

*****
                          ASA COMPANY Employee Payroll
*****
Current Date and Time:2023-11-05 17:23:48

-----
Empno Name           Job           Basic    DA      HRA      Gross    Tax      Net
-----
201 Ashutosh         officer    26752.00 13376.00 9363.20 49491.20 5350.40 44140.80
202 Suraj            manager    42658.00 19196.10 12797.40 74651.50 6398.70 68252.80
203 Aditiya          Major      89476.00 7469.60 4668.50 30812.10 1867.40 28944.70
204 Parthivi         assistant  17456.00 6982.40 4364.00 28802.40 1745.60 27056.80
-----
```

Display salary slip of all employees

```
*IDLE Shell 3.11.2*
File Edit Shell Debug Options Window Help

-----
*****
                      ASA COMPANY MAIN MENU
*****
1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...8

-----
                      ASA COMPANY SALARY SLIP
-----
Current Date and Time: 2023-11-05 17:28:41
201 Ashutosh      officer  26752.00 13376.00 9363.20 49491.20 5350.40 44140.80
202 Suraj         manager  42658.00 19196.10 12797.40 74651.50 6398.70 68252.80
203 Aditiya       Major    89476.00 7469.60 4668.50 30812.10 1867.40 28944.70
204 Parthivi      assistant 17456.00 6982.40 4364.00 28802.40 1745.60 27056.80
```

Display salary slip of a particular Employee

```
*****
                      ASA COMPANY MAIN MENU
*****
1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...9
Enter employee number whose pay slip you want to retrieve:203

                      ASA GROUP OF COMPANY SALARY SLIP
Current Date and Time: 2023-11-05 17:31:21
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EnpNo | Name   | Job   | Basic Salary | DA   | HRA   | Gross Salary | Tax   | Net Salary |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 203   | Aditiya | Major | 89476        | 7469.6 | 4668.5 | 30812.1      | 1867.4 | 28944.7    |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

Deleting record of a particular Employee

```
*****
ASA COMPANY MAIN MENU
*****
1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...5
Enter employee no. of the record to be deleted...204
deletion done
```

```
*****
ASA COMPANY MAIN MENU
*****
1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...2
```

EnpNo	Name	Job	Basic Salary	DA	HRA	Gross Salary	Tax	Net Salary
201	Ashutosh	officer	26752	13376	9363.2	49491.2	5350.4	44140.8
202	Suraj	manager	42658	19196.1	12797.4	74651.5	6398.7	68252.8
203	Aditiya	Major	89476	7469.6	4668.5	30812.1	1867.4	28944.7

Deleting All Records of Employee

IDLE Shell 3.11.2

Edit Shell Debug Options Window Help

```
*****
ASA COMPANY MAIN MENU
*****
1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...4
Do you want to delete all the records (y/n)y
All the records are deleted.....

*****
ASA COMPANY MAIN MENU
*****
1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...2
```

```
Enter Choice...4
Do you want to delete all the records (y/n)y
All the records are deleted.....
```

```
*****
ASA COMPANY MAIN MENU
*****
1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Record of a particular Employee
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying payroll
8. For displaying Salary Slip for all the Employees
9. For displaying salary slip for a particular Employee
10.For Exit

Enter Choice...2
```

EnpNo	Name	Job	Basic Salary	DA	HRA	Gross Salary	Tax	Net Salary
201	Ashutosh	officer	26752	13376	9363.2	49491.2	5350.4	44140.8
202	Suraj	manager	42658	19196.1	12797.4	74651.5	6398.7	68252.8
203	Aditiya	Major	89476	7469.6	4668.5	30812.1	1867.4	28944.7

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