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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',passw
d='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')
  print("*"*95)
  print('\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\t8. For displaying Salary Slip for all the Employees')
  print('\t\t\t9. For displaying salary slip for a particular
Employee')
  print('\t\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")
    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")
       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 retreive:")
```

```
query='select*from '+TableName+' where empno='+en
       mycursor.execute(query)
       now= datetime.datetime.now()
       print("\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

```
Enter name of your database: PAYROLL
Database created Successfully..
Name of Table to be created:PAY
Table PAY created successfully..

ASA COMPANY MAIN MENU

***

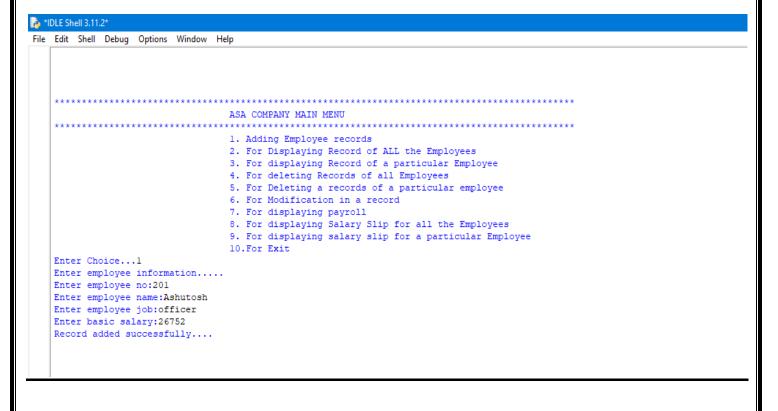
ASA COMPANY MAIN MENU

***

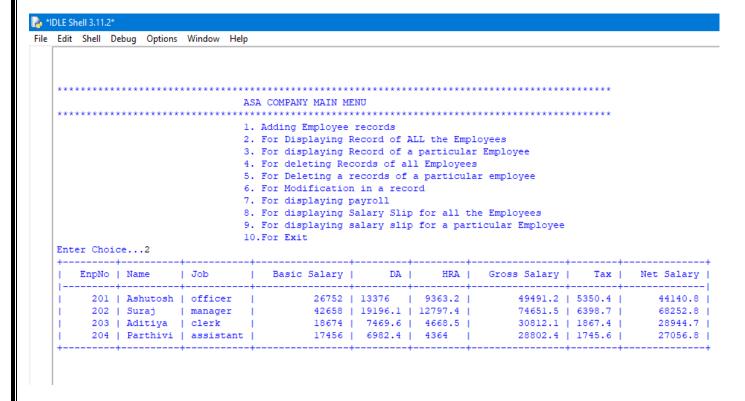
1. Adding Employee records
2. For Displaying Record of ALL the Employees
3. For displaying Records of all Employees
4. For deleting Records of all Employees
5. For Deleting a records of a particular employee
6. For Modification in a record
7. For displaying Salary Slip for all the Employees
9. For displaying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

Enter Choice...
```

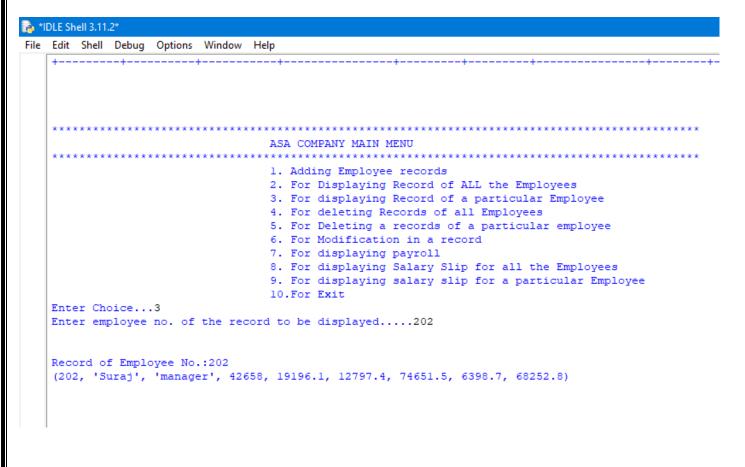
ADDING EMPLOYEE RECORDS



Displaying records of all Employees



Displaying record of a particular Employee



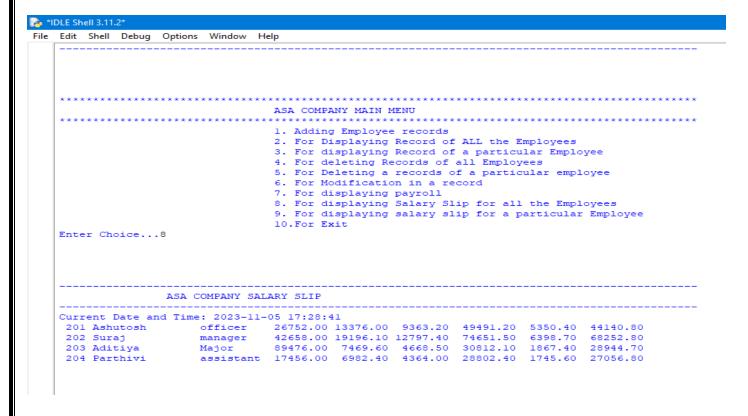
Modification in a record

```
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
      : Aditiya
job
      : clerk
basic : 18674
       : 7469.6
da
      : 4668.5
hra
gross : 30812.1
       : 1867.4
      : 28944.7
net
type Value to modify belof or just press 'Enter key' for no change
Enter name Aditiva
Enter job Major
Enter basic salary 89476
update PAY set name='Aditiya',job='Major',basicsalary=89476.0 where empno=203
Record modified
```

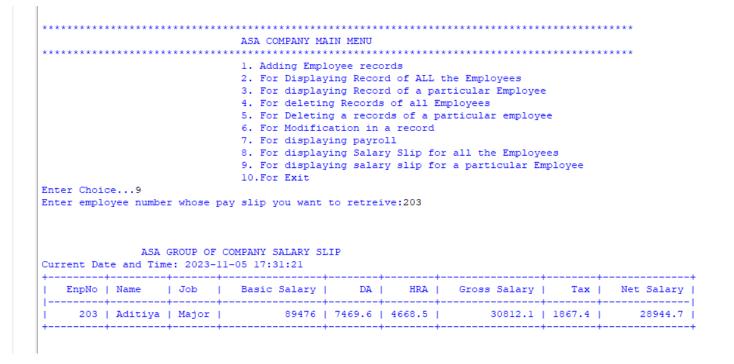
Displaying Payroll

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

Display salary slip of all employees



Display salary slip of a particular Employee



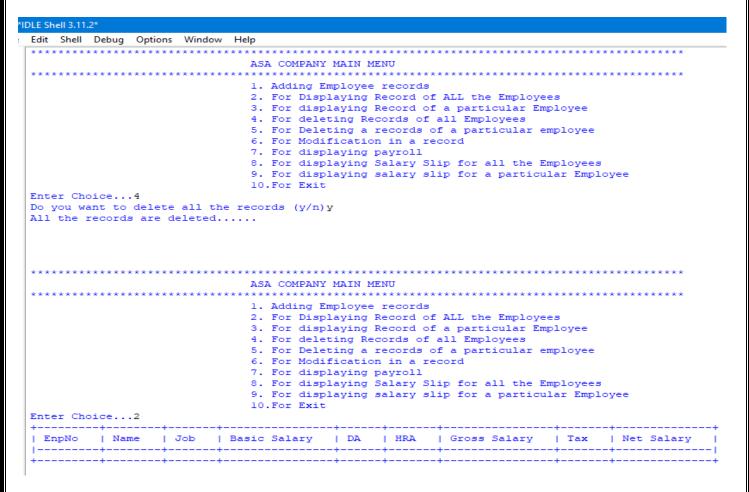
Deleting record of a particular Employee

```
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

    For displaying payroll
    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
                                                ASA COMPANY MAIN MENU
                                                1. Adding Employee records
                                                 2. For Displaying Record of ALL the Employ
                                                 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
                              | Job | Basic Salary |
                                                                                DA |
                                                                                              HRA | Gross Salary |
      EnpNo | Name
        201 | Ashutosh | officer | 26752 | 13376 | 9363.2 | 49491.2 | 5350.4 | 202 | Suraj | manager | 42658 | 19196.1 | 12797.4 | 74651.5 | 6398.7 | 203 | Aditiya | Major | 89476 | 7469.6 | 4668.5 | 30812.1 | 1867.4 |
                                                                                                                                                          68252.8
```

Deleting All Records of Employee



Bibliography

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