Project Report on

SCHOOL MANAGEMENT SY TEM

Submitted by

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Class-XII (2024-25)

Under the Guidance of

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P.G.T. (Computer Science)

SHRI GURU RAM RAI PUBLIC SCHOOL

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D EC L A R A T I O N

I hereby declare that the project work entitled **'SCHOOL MANAGEMENT SYSTEM',** submitted to **MR. NEERAJ JAIRATH (P.G.T.-COMPUTER SCIENCE)**, Shri Guru Ram Rai Public School, Deoband is presented by me. All the coding are result of my personal effort.

C E R T I F I C A T E

This is certify that , a student of Class-XII-A is successfully completed the project **'SCHOOL MANAGEMENT SYSTEM'** during the academic year (2024-25) in partial fulfilment of **COMPUTER SCIENCE (083) PRACTICAL EXAMINATION** conducted by Central Board of Secondary Education.

…… ……

Internal Examiner:- **External Examiner:-**

……

Principal:-

ACKNOWLEDGMENT

In the accomplishment of this project successfully, many people have bestowed upon me their blessings and the heart pledge support.

- Primarily I would thank **God** for being able to complete this project success.

- Then I would like to thank my **Principal Mr. Vijay Gupta and Computer Science Teacher Mr. Neeraj Jairath** who provide me valuable guidance to make this project successful.

- I also thanks to my **parents** for their motivation & support.

Class XII-A

(2024-25)

SYSTEM REQUIREMENT

1. Hardware Requirement :-

a. Processor – A modern processor (i3, i5, i7 or high) with at least 1 GHz clock speed.
b. Memory (RAM) – At least 2 GB
c. Disk Space – 20 GB space is recommended

2. Software Requirement:-

a. Operating System – Windows 10
b. Python – Version-3.11
c. MySQL – 5.5 or high
d. MySQL connector must be installed in python

Database & Table Creation in MySQL

```
mysql> use school;
Database changed
```

```
mysql> create table staff
   -> (
   -> Teacher_ID int primary key,
   -> Name char (20),
   -> Father char (10),
   -> Post char (4),
   -> Subject char (10),
   -> G_Salary int,
   -> PF int,
   -> N_Salary int
   -> );
Query OK, 0 rows affected (0.05 sec)

mysql>
```

```
mysql> desc staff;
+-------------+-----------+------+-----+---------+-------+----------+-------+----------+-------+
| Field       | Type      | Null |   Key | Default | Extra |
+-------------+-----------+------+-----+---------+-------+----------+-------+----------+-------+
| Teacher_ID  | int       | NO   | PRI | NULL    |       |
| Name        | char(20)  | YES  |     | NULL    |       |
| Father      | char(10)  | YES  |     | NULL    |       |
| Post        | char(4)   | YES  |     | NULL    |       |
| Subject     | char(10)  | YES  |     | NULL    |       |
| G_Salary    | int       | YES  |     | NULL    |       |
| PF          | int       | YES  |     | NULL    |       |
| N_Salary    | int       | YES  |     | NULL    |       |
+-------------+-----------+------+-----+---------+-------+----------+-------+----------+-------+
8 rows in set (0.01 sec)
```

```
mysql> create table student
    -> (
    -> S_ID int primary key,
    -> Name char (20),
    -> Father char (10),
    -> Mother char (8),
    -> Class char (3),
    -> Stream char (4),
    -> A_Ch int,
    -> T_Fee int,
    -> Comp int,
    -> Total int
    -> );
Query OK, 0 rows affected (0.04 sec)

mysql> desc student;
+---------+-----------+-------+------+----------+--------+----------+--------+
| Field   |      Type          | Null | Key | Default | Extra |
+---------+-----------+-------+------+----------+--------+----------+--------+
| S_ID          | int           | NO   | PRI | NULL    |       |
| Name        | char(20)    | YES  |        | NULL    |       |
| Father      | char(10)    | YES  |        | NULL    |       |
| Mother      | char(8)      | YES  |        | NULL    |       |
| Class         | char(3)      | YES  |        | NULL    |       |
| Stream      | char(4)      | YES  |        | NULL    |       |
| A_Ch         | int           | YES  |        | NULL    |       |
| T_Fee        | int           | YES  |        | NULL    |       |
| Comp        | int           | YES  |        | NULL    |       |
| Total         | int           | YES  |        | NULL    |       |
+---------+-----------+-------+------+----------+--------+----------+--------+
10 rows in set (0.01 sec)

mysql>
```

SOURCE CODE

(PYTHON CODING)

Database & Table Creation in MySQL

```
mysql> create database StudentManagement;
Query OK, 1 row affected (0.06 sec)

mysql> use StudentManagement;
Database changed


mysql> create table student
   -> (
   -> S_ID int primary Key,
   -> Name char (20),
   -> Father char (15),
   -> Class int,
   -> Ad_Fee int,
   -> Term_I_Fee int,
   -> Term_II_Fee int,
   -> Total int
   -> );
Query OK, 0 rows affected (0.17 sec)


mysql> desc student;
+--------------+-----------+-------+-----+----------+--------+----------+--------+
| Field      | Type    |              Null  | Key | Default | Extra |
+--------------+-----------+-------+-----+----------+--------+----------+--------+
| S_ID               | int          | NO   | PRI | NULL    |      |
| Name               | char(20)    | YES |       | NULL    |      |
| Father             | char(15)    | YES |        | NULL   |      |
| Class              | int          | YES |       | NULL    |      |
| Ad_Fee             | int          | YES |       | NULL    |      |
| Term_I_Fee         | int          | YES |       | NULL    |      |
| Term_II_Fee        | int          | YES |       | NULL    |      |
| Total              | int          | YES |       | NULL    |      |
+--------------+-----------+-------+-----+----------+--------+----------+--------+
8 rows in set (0.06 sec)
```

SOURCE CODE

(PYTHON CODING)

```
import mysql.connector as c
# Here we are importing a module - 'mysql.connector' for the use of 'connect' function for making connection between Python and MySQL.
# We gave a alias 'c' to this module (mysql.connector) name.

from tabulate import tabulate
# Here we are importing a module - 'tabulate' for showing the data of table as a stylish tables.
# Because we used 'from' statement so we can use of only one function of this module

import datetime as d
# Here we are importing a module - 'datetime' and gave alias d

con=c.connect(host='localhost',user='root',passwd='1234',database='school')
# Here we make a connection between Python and MySQL
# Where 'con' is a connection object (any name)
# 'c' is alias of module - 'mysql.connector'
# and 'connect()' is a function of module mysql.connector. It returns connection object

if con.is_connected():
# is_connected is a function of module - mysql.connector.
# This function is used with 'connection object' and here connection object name is 'con'

   print("\n")
   print("\t\t\t\tPYTHON-SQL-CONNECTIVITY BASED PROJECT")
else:
   print("Error")
```

```
#DISPLAY MENU ----------
def menu():
# This function is created for Home Page. It has various button as INSERT,
SEARCH, DELETE etc. According to choice user can use any option.
   print("\t\t\t\t\tCLASS-XII (2024-25)")
   print("\t\t\t\tSUBJECT - COMPUTER SCIENCE (083)")
   print("*"*105)
   print("\t\t\tS C H O L L  M A N A G E M E N T  S Y S T E M")
   print("*"*105)
   print("M E N U :-")
   print("=======")
   print("                    T E A C H E R S  R E C O R D")
   print("                    ======================")
   print(" 1.  Display Teachers")
   print("\t 1a.  Display PGTs")
   print("\t 1b.  Display TGTs")
   print(" 2.  Add New Teacher")
   print(" 3.  Update Teacher")
   print(" 4.  Search Teacher")

   print("                    S T U D E N T S  R E C O R D")
   print("                    ======================")
   print(" 5.  Display Students")
   print("\t 5a.  Display All")
   print("\t 5b.  Display Class-XI")
   print("\t 5c.  Display Class-XII")
   print(" 6.  Add New Student")
   print(" 7.  Update Student")
   print(" 8.  Search Student")
   print(" 9.  Fee Slip")
   print("10.  Delete Student")
   print("11.  Exit")

   print("*"*105)
```

```
#TEACHER MENU ----------
def displayTeachers():
# This function is created for DISPLAY the record of all teachers of table - 'staff'
    print("\n\n")
    print(" ..........................................................................................................")
    print("-------------------------------------* ALL STAFF LIST * ----------------------------------")
    print(" ..........................................................................................................")
    print("\n\n")
    cur=con.cursor()
# Here cursor()is a function of module 'mysql.connector' and 'con' is a connection object and 'cur' is cursor object.
# This cursor object 'cur' (any name)is used for execute other function as execute(), fetch() etc.
# cursor function is call with connection object and make corsor object.

    cur.execute("select * from staff")
# Here execute()is a function. It is used with cursor object
# execute () function is used to execute an query on data.
# We can write above statement like following way also - #
q="select * from staff
# cur=execute(q)
# Here q is any variable name

    data=cur.fetchall()
# fetchall() function is used to take the data from connected table with the help of cursor object
# and store in a variable

    h=['Teacher_ID','Name','Father','Post','Subject','G_Salary','PF','N_Salary']
# Here h is a list variable. This list is created for making headings of tuple.
# NOTE - Here we can use space also like this.
    # h=['Teacher ID','Name','Father','Post','Subject','Gross Salary','PF','Net Salary']

    print(tabulate(data,headers=h,tablefmt='psql'))
# fetch() function take data from connected table but it displays data in the form of tuple
# so if we want to display these tuple in the form of table, then we can use of tabulate() function
# Syntax -  tabulate(variable where fetch data is storted, headers=list variable in which heading stored, tablefmt=' ')
# tablefmt may be psql, plain, grid, pretty, fancy_grid, pipe, jira etc
```

```
    print("\n")
    print("Total Number of Records = ",cur.rowcount)
# rowcount is not a function.
# It returns the number of affected row or tuple by the last statement
# It can be used by cursor object
    print("\n\n")
```

def displayPGT():

```
# This function is created for DISPLAY the record of only PGTs teachers of table - 'staff'
    print("\n\n")
    print(" ..... ")
    print("----------* LIST OF PGTs * ----------")
    print(" ..... ")
    print("\n\n")
    cur=con.cursor()
    cur.execute("select * from staff where post = 'PGT'")
    data=cur.fetchall()
    h=['Teacher_ID','Name','Father','Post','Subject','G_Salary','PF','N_Salary']
    print(tabulate(data,headers=h,tablefmt='psql'))
    print("\n")
    print("Total PGT Teachers = ",cur.rowcount)
    print("\n\n")
```

def displayTGT():

```
# This function is created for DISPLAY the record of only TGT's teachers of table - 'staff'
    print("\n\n")
    print(" ..... ")
    print("----------* LIST OF PGTs * ----------")
    print(" ..... ")
    print("\n\n")
    cur=con.cursor()
    cur.execute("select * from staff where post = 'TGT'")
    data=cur.fetchall()
    h=['Teacher_ID','Name','Father','Post','Subject','G_Salary','PF','N_Salary']
    print(tabulate(data,headers=h,tablefmt='psql'))
    print("\n")
    print("Total TGT Teachers = ",cur.rowcount)
    print("\n\n")
```

def insertTeacher():

```
#This function is used to insert or add a new teacher record in Table - staff
   print("\n\n")
   print(" ..... ")
   print("------------------------------* INSERT NEW STAFF *  ----------------------------")
   print(" ..... ")
   print("\n\n")
   cur=con.cursor()
   ti=int(input("Enter Teacher_ID = "))
   tn=input("Enter Teacher Name = ")
   tf=input("Enter Teacher's Father = ")
   td=input("Enter Teacher Designation = ")
   ts=input("Enter Teaching Subject = ")
   gs=int(input("Enter Gross Salary = "))
   pf=gs*.15
   ns=gs-pf
   query="insert into staff
values(%s,'%s','%s','%s','%s',%s,%s,%s)"%(ti,tn,tf,td,ts,gs,pf,ns)
# OR  query="insert into staff({},'{}','{}','{}','{}',{},{},{})".format(ti,tn,tf,td,ts,gs,pf,ns)
# Above line is an example of parameterized query
# This is used when we want to insert some new data in connected table or want
to change some data of connected table.
# For this we have to need a variable for each field of the connected table
# First method -  "required_query (%s,'%s')" %(variable for integer type, variable
for varchar type)
# Second method - "required_query ({},'{}')".format(variable for integer type,
variable for varchar type)

   cur.execute(query)
   con.commit()
# commit() is function of module mysql.connector
# It is used to save the data of a table after apply various commands as INSERT,
UPDATE, DELETE etc.
   print("\n")
   print("Teacher-Data inserted successfully..... ")
```

def updateTeacher():

```
#This function is used to change the value or update data in the table - staff
    print("\n\n")
    print(" ..... ")
   print("----------* UPDATE TEACHER RECORD *----------")
    print(" .....")
    print("\n\n")
    cur=con.cursor()
    ti=int(input("Enter Teacher_ID for update the record = "))
    print("----------")
    tn=input("Enter Teacher Name = ")
    tf=input("Enter Teacher's Father = ")
    td=input("Enter Teacher Designation = ")
    ts=input("Enter Teaching Subject = ")
    gs=int(input("Enter Gross Salary = "))
    pf=gs*.15
    ns=gs-pf
    query="update staff set
Name='%s',Father='%s',Designation='%s',Subject='%s',Gross_Salary=%s,PF=%s,Ne
t_Salary=%s where Teacher_ID=%s"\
       % (tn,tf,td,ts,gs,pf,ns,ti)

    cur.execute(query)
    con.commit()
    print("\n")
    print("Teacher-Data updated successfully..... ")
```

def searchTID():

```
#This function is used to search or find a  record of table - staff.
    print("\n\n")
    print(" ..... ")
    print("----------* SEARCH BY - TEACHER-ID *  ----------")
    print(" ..... ")
    print("\n\n")
    cur=con.cursor()
    ti=int(input("Enter Teacher-ID for searching = "))
    print("----------")
    query="Select * from staff where Teacher_ID = %s" % (ti,)
    cur.execute(query)
```

```
    data=cur.fetchall()
    h=['Teacher_ID','Name','Father','Post','Subject','G_Salary','PF','N_Salary']
    print(tabulate(data,headers=h,tablefmt='psql'))
    print("\n")
    print("Total Number of Records = ",cur.rowcount)


#STUDENT MENU ----------
def displayStu():
# This function is created for DISPLAY the MENU of students
# There are three options for display as 'All Students' of 'Class-XI' or 'Class-XII
    print("\n\n")
    print(" .....")
    print("----------* DISPLAY STUDENTS * ----------")
    print(" ..... ")
    print("\n\n")
    print("What do you want to display -->")
    print("Press 5a.....All Student")
    print("Press 5b.....Class-XI")
    print("Press 5c..... Class-XII")

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


def displayAllStu():
#This function is created for display the list of all students from table - 'student'
    print("\n\n")
    print(" ..... ")
 print("----------* LIST OF ALL STUDENTS *  ----------")
    print(" .....")
    print("\n\n")
    cur=con.cursor()
    cur.execute("select * from student")
    data=cur.fetchall()
    h=['S_ID','Name','Father','Mother','Class','Stream','A_Ch','T_Fee','Comp','Total']
    print(tabulate(data,headers=h,tablefmt='psql'))
    print("\n")
    print("Total Number of Students = ",cur.rowcount)
    print("\n\n")
```

def displayStu_11() :

```
#This function is created for display the list of only students of class-XI from table - 'student'
    print("\n\n")
    print(" ..... ")
    print("---------* LIST OF CLASS-XI * ---------")
    print(" ..... ")
    print("\n\n")
    cur=con.cursor()
    cur.execute("select * from student where class = 11")
    data=cur.fetchall()
    h=['S_ID','Name','Father','Mother','Class','Stream','A_Ch','T_Fee','Comp','Total']
    print(tabulate(data,headers=h,tablefmt='psql'))
    print("\n")
    print("Total Number of Students = ",cur.rowcount)
    print("\n\n")
```

def displayStu_12() :

```
#This function is created for display the list of only students of class-XII from table - 'student'
    print("\n\n")
    print(" ..... ")
    print("---------* LIST OF CLASS-XII * ---------")
    print(" .....")
    print("\n\n")
    cur=con.cursor()
    cur.execute("select * from student where class = 12")
    data=cur.fetchall()
    h=['S_ID','Name','Father','Mother','Class','Stream','A_Ch','T_Fee','Comp','Total']
    print(tabulate(data,headers=h,tablefmt='psql'))
    print("\n")
    print("Total Number of Students = ",cur.rowcount)
    print("\n\n")
```

def insertStudent():

```
#This function is created for insert or add new record in table - 'student'
   print("\n\n")
   print(" ..........................................................................................................")
   print("------------------------------* INSERT NEW STUDENT *  ------------------------------")
   print(" ..........................................................................................................")
   print("\n\n")
   cur=con.cursor()
   si=int(input("Enter Student_ID = "))
   sn=input("Enter Student Name = ")
   sf=input("Enter Father's Name = ")
   sm=input("Enter Mother's Name = ")
   cl=input("Enter Class = ")
   st=input("Enter Stream = ")
   ac=int(input("Enter Annual Charge = "))
   tf=int(input("Enter Tution Fee = "))
   cf=int(input("Enter Computer Fee = "))

   tot=ac+tf+cf
   query="insert into student
values(%s,'%s','%s','%s','%s','%s',%s,%s,%s,%s)"%(si,sn,sf,sm,cl,st,ac,tf,cf,tot)
   cur.execute(query)
   con.commit()
   print("\n")
   print("Record of new student has inserted successfully ..... ")
```

def updateStudent():

```
#This function is created for update or modify a record of table - 'student'
   print("\n\n")
   print(" ..........................................................................................................")
print("------------------------* UPDATE STUDENT RECORD * --------------------")
   print(" ..........................................................................................................")
   print("\n\n")
   cur=con.cursor()
   si=int(input("Enter Student_ID for update the record = "))
   print("-----------------------------------------------")

   print("Previous Record of Student-ID No.-",si,"is -->")
```

```
    query="Select * from student where S_ID = %s" % (si,)
    cur.execute(query)
    data=cur.fetchall()
    h=['S_ID','Name','Father','Mother','Class','Stream','A_Ch','T_Fee','Comp','Total']
    print(tabulate(data,headers=h,tablefmt='psql'))
    print("\n")
    print("Please enter updated data .....")
    print("\n")
    sn=input("Enter Student Name = ")
    sf=input("Enter Father's Name = ")
    sm=input("Enter Mother's Name = ")
    cl=input("Enter Class = ")
    st=input("Enter Stream = ")
    ac=int(input("Enter Annual Charge = "))
    tf=int(input("Enter Tution Fee = "))
    cf=int(input("Enter Computer Fee = "))
    tot=ac+tf+cf

    query="update student set
Name='%s',Father='%s',Mother='%s',Class='%s',Stream='%s',A_Ch=%s,T_Fee=%s,
Comp=%s,Total=%s where S_ID=%s"\
      % (sn,sf,sm,cl,st,ac,tf,cf,tot,si)
    cur.execute(query)
    con.commit()
    print("\n")
    print("Student Record has updated successfully..... ")
```

def searchStudent():

```
#This function is created for search or find record in table - 'student'
    print("\n\n")
    print(" ..... ")
    print("----------* SEARCH STUDENT *  ----------")
    print(" ..... ")
    print("\n\n")
    cur=con.cursor()
    si=int(input("Enter Student-ID for searching = "))
    print("-------------------------------------------------")
    query="Select * from student where S_ID = %s" % (si,)
    cur.execute(query)
```

```
    data=cur.fetchall()
    h=['S_ID','Name','Father','Mother','Class','Stream','A_Ch','T_Fee','Comp','Total']
    print(tabulate(data,headers=h,tablefmt='psql'))
    print("\n")
    print("Total Records = ",cur.rowcount)
```

def feeSlip():

```
# This function is used to display the Fee Slip of a student. (For this we need of Student-ID).
    cur=con.cursor()
    si=int(input("Enter Student ID for Fee Slip = "))
    print("\n\n")
    print(" ..........................................................................................................")
    print("                    A L L   I N D I A   P U B L I C   S C H O O L")
    print("-----------------------------------* FEE SLIP *  ----------------------------------------------")
    print(" ..........................................................................................................")
    print("\n\n")

    print("Current Date & Time:-",end='                                    ')
    print(d.datetime.now().strftime('%d-%m-%y & %H:%M:%S'))
    print("\n")
    query="Select * from student where S_ID=%s" % (si,)
    cur.execute(query)
    data=cur.fetchall()
    h=['S_ID','Name','Father','Mother','Class','Stream','A_Ch','T_Fee','Comp','Total']
    print(tabulate(data,headers=h,tablefmt='psql'))

    print("\n\n")
    print(" ..........................................................................................................")
    print("-----------------------------* ****************** *  ------------------------------")
    print(" ..........................................................................................................")
    print("\n\n\n\n")
```

def delete():

```
# This function is used to delete a record of table - student. (For this we need of student_ID).
    print("\n\n")
    print(" ..........................................................................................................")
    print("--------------------------------* DELETE STUDENT DATA * ------------------------------")
    print(" ..........................................................................................................")
    print("\n\n")
    cur=con.cursor()
    ti=int(input("Enter Student-ID for delete the record of student = "))
    query="delete from student where S_ID=%s" % (ti,)
    ch=input("Do you want to delete this student's record(y/n) : ")
    if ch=='y' or ch=='Y':
        cur.execute(query)
        con.commit()
        print("\nStudent deleted successfully..... ")
    else:
        print("\n          O.K ..... be aware for deletion ..... !")
```

while True:

```
# This loop will continue (true) untill the break statement executes
# Means if user press 1 or 1a or 1b or 1c or 2 or 3 or 4 or 4a or 4b or 5 or 6 or 7 then menu() functon execute
# And if user press any other key then loop will be terminated and apply break
    menu()

    choice=input("Select any option according to your choice : ")
    print("*"*90)
    if choice =='1':
        displayTeachers()
    elif choice =='1a':
        displayPGT()
    elif choice =='1b':
        displayTGT()
    elif choice =='2':
        insertTeacher()
    elif choice =='3':
        updateTeacher()
    elif choice =='4':
```

```
        searchTID()
    elif choice =='5':
        displayStu()
    elif choice =='5a'or choice =='5A':
        displayAllStu()
    elif choice =='5b' or choice =='5B':
        displayStu_11()
    elif choice =='5c' or choice =='5C':
        displayStu_12()
    elif choice =='6':
        insertStudent()
    elif choice =='7':
        updateStudent()
    elif choice =='8':
        searchStudent()
    elif choice =='9':
        feeSlip()
    elif choice =='10':
        delete()
    else:
        break

print("\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n")
print("============================================================")
print("            T H A N K  Y O U !!!! for using our School Management System")
print("                              H A V E  A  N I C E  D A Y !")
print("============================================================")
print("\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n")
```

O U T P U T

Main Menu

```
                            PYTHON-SQL-CONNECTIVITY BASED PROJECT
                                    CLASS-XII (2023-24)
                            SUBJECT - COMPUTER SCIENCE (083)
*********************************************************************************************************
                      S C H O L L   M A N A G E M E N T   S Y S T E M
*********************************************************************************************************
M E N U :-
=======
                             T E A C H E R S   R E C O R D
                             ============================
 1.   Display Teachers
        1a.   Display PGTs
        1b.   Display TGTs
 2.   Add New Teacher
 3.   Update Teacher
 4.   Search Teacher
                             S T U D E N T S   R E C O R D
                             ============================
 5.   Display Students
        5a.   Display All
        5b.   Display Class-XI
        5c.   Display Class-XII
 6.   Add New Student
 7.   Update Student
 8.   Search Student
 9.   Fee Slip
10.   Delete Student
11.   Exit
*********************************************************************************************************
Select any option according to your choice :
```

Display Teachers Menu

```
*********************************************************************************************************
Select any option according to your choice : 1
*********************************************************************************************************



.........................................................................................
----------------------------------* ALL STAFF LIST *-------------------------------------
.........................................................................................



+--------------+-------------+----------+--------+-----------+------------+------+------------+
|   Teacher_ID | Name        | Father   | Post   | Subject   |   G_Salary |   PF |   N_Salary |
|--------------+-------------+----------+--------+-----------+------------+------+------------|
|            1 | Amar Singh  | P.R.     | PGT    | Physics   |      45500 | 6825 |      38675 |
|            2 | Pulkit Raj  | F.T.     | TGT    | Chemistry |      25000 | 3750 |      21250 |
|            3 | Parul Singh | N.R.     | TGT    | Science   |      18750 | 2813 |      15938 |
|            4 | Parasmani   | V.P.     | PGT    | Biology   |      38800 | 5820 |      32980 |
|            5 | Ambar Raj   | T.K.     | PGT    | C.S.      |      48800 | 7320 |      41480 |
+--------------+-------------+----------+--------+-----------+------------+------+------------+


Total Number of Records =  5
```

Display PGTs Menu

```
**********************************************************************************************************
Select any option according to your choice : 1a
**********************************************************************************************

.....................................................................................................
-----------------------------------* LIST OF PGTs *-----------------------------------------------
.....................................................................................................

+--------------+------------+----------+--------+-----------+------------+------+------------+
|   Teacher_ID | Name       | Father   | Post   | Subject   |   G_Salary |   PF |   N_Salary |
|--------------+------------+----------+--------+-----------+------------+------+------------|
|            1 | Amar Singh | P.R.     | PGT    | Physics   |      45500 | 6825 |      38675 |
|            4 | Parasmani  | V.P.     | PGT    | Biology   |      38800 | 5820 |      32980 |
|            5 | Ambar Raj  | T.K.     | PGT    | C.S.      |      48800 | 7320 |      41480 |
+--------------+------------+----------+--------+-----------+------------+------+------------+

Total PGT Teachers =  3
```

Display TGTs Menu

```
**********************************************************************************************************
elect any option according to your choice : 1b
**********************************************************************************************

.....................................................................................................
---------------------------------* LIST OF PGTs *-----------------------------------------------
.....................................................................................................

--------------+------------+----------+--------+-----------+------------+------+------------+
   Teacher_ID | Name       | Father   | Post   | Subject   |   G_Salary |   PF |   N_Salary |
--------------+------------+----------+--------+-----------+------------+------+------------|
            2 | Pulkit Raj | F.T.     | TGT    | Chemistry |      25000 | 3750 |      21250 |
            3 | Parul Singh| N.R.     | TGT    | Science   |      18750 | 2813 |      15938 |
--------------+------------+----------+--------+-----------+------------+------+------------+

otal TGT Teachers =  2
```

Add New Teacher Menu

```
11.  Exit
**********************************************************************************************
Select any option according to your choice : 2
**********************************************************************************************




.....................................................................................
-------------------------------------* INSERT NEW STAFF *-----------------------------
.....................................................................................



Enter Teacher_ID = 6
Enter Teacher Name = Veena Mehta
Enter Teacher's Father = P.K.
Enter Teacher Designation = PGT
Enter Teaching Subject = Acct.
Enter Gross Salary = 45850


Teacher-Data inserted successfully.............
```

Search Teacher Menu

```
**********************************************************************************************
Select any option according to your choice : 4
**********************************************************************************************




.....................................................................................
---------------------------------* SEARCH BY - TEACHER-ID *-----------------------------
.....................................................................................



Enter Teacher-ID for searching = 5
-------------------------------------------
+--------------+-----------+----------+--------+-----------+------------+------+-------------
|   Teacher_ID | Name      | Father   | Post   | Subject   |   G_Salary |   PF |   N_Salary
|--------------+-----------+----------+--------+-----------+------------+------+-------------
|            5 | Ambar Raj | T.K.     | PGT    | C.S.      |      48800 | 7320 |      41480
+--------------+-----------+----------+--------+-----------+------------+------+-------------
```

Display Students Menu

```
11.   Exit
**********************************************************************************************************
Select any option according to your choice : 5
**********************************************************************************************************




.....................................................................................
-------------------------------------* DISPLAY STUDENTS *-----------------------------
.....................................................................................



What do you want to display -->
Press 5a ............ All Student
Press 5b ............ Class-XI
Press 5c ............ Class-XII
```

Display All Students Menu

```
11.   Exit
**********************************************************************************************************
Select any option according to your choice : 5a
*******************************************************************************************



.....................................................................................
-------------------------------------* LIST OF ALL STUDENTS *-------------------------------
.....................................................................................



+--------+--------------+----------+----------+---------+----------+--------+---------+--------+----------+
|   S_ID | Name         | Father   | Mother   |   Class | Stream   |   A_Ch |   T_Fee |   Comp |    Total |
|--------+--------------+----------+----------+---------+----------+--------+---------+--------+----------|
|    101 | Charu Mittal | D.S.     | Kriti    |      11 | PCB      |  11000 |   24000 |  24000 |    59000 |
|    102 | Raja         | R.P.     | Teena    |      12 | PCM      |  18000 |   28000 |   6000 |    52000 |
|    103 | Goldy        | G.L.     | Riya     |      12 | PCB      |  18000 |   28000 |   6000 |    52000 |
+--------+--------------+----------+----------+---------+----------+--------+---------+--------+----------+


Total Number of Students =  3
```

Search Student Menu

```
Select any option according to your choice : 8
```

```
                                        * SEARCH STUDENT *
```

```
Enter Student-ID for searching = 102
```

S_ID	Name	Father	Mother	Class	Stream	A_Ch	T_Fee	Comp	Total
102	Raja	R.P.	Teena	12	PCM	18000	28000	6000	52000

```
Total Records =  1
```

Fee Slip Menu

```
Select any option according to your choice : 9
Enter Student ID for Fee Slip = 103
```

```
                    A L L   I N D I A   P U B L I C   S C H O O L
                                        * FEE SLIP *
```

```
Current Date & Time:-                                   10-01-23 & 18:37:34
```

S_ID	Name	Father	Mother	Class	Stream	A_Ch	T_Fee	Comp	Total
103	Goldy	G.L.	Riya	12	PCB	18000	28000	6000	52000

Delete Student Menu

```
**************************************************************************************************
Select any option according to your choice : 10
**************************************************************************************************



.....................................................................................
----------------------------------* DELETE STUDENT DATA *-----------------------------------
.....................................................................................



Enter Student-ID for delete the record of student = 103
Do you want to delete this student's record(y/n) : n

           O.K ............ be aware for deletion.....!
```

Exit Menu

```
=====================================================================================
               T H A N K   Y O U !!!! for using our School Management System
                           H A V E   A   N I C E   D A Y !
=====================================================================================
```

R E F E R E N C E S

- Python Class-XI Book
- Python Class-XII Book
- Python.org
- Google etc
- Under the guidance of subject teacher

Thank you!