

SCHOOL MANAGEMENT SYSTEM

OBJECTIVE:

To create a school management project to record all the data of the student and record all the activities of the school using PYTHON and MYSQL



INTRODUCTION

The School management project is written on python and my sql interface. It is stored in the python file(SchoolMangementSystem.py). It is very simple console which is easy to use and understand.

The data which is entered in python console will be stored in the mysql database. The database is MCV and the tables present in the database are new_admission, school_fee and some tables.

Every detail of the student will be stored in the database. It stores fee payment of the student, books fee of the student and bus fee of the student and staff available in the school and many more.

This console of school management system stores the records of the student and we imported only two libraries mysq-connector-python and date.

SOURCE CODE:

```
#importing mysql module
import mysql.connector

#importing date library
from datetime import date

#defining a function to dispaly all admissions
def total():

    conn=mysql.connector.connect(host="localhost",user="root",password="hariom123",database="mcv")

    cursor=conn.cursor()
    cursor.execute("select * from new_admission")
    data=cursor.fetchall()
    count=cursor.rowcount
    print("Total number of admissions are :")
    for i in data:
        print(i)
    return()

#defineing a function bus_fee for entering the bus fee of the student
```

```
def bus_fee():

    conn=mysql.connector.connect(host="localhost",user="root",password="hariom123",database="mcv")

    cursor=conn.cursor()

    adm_no=int(input("Enter your admission number : "))

    name=input("Enter your name : ")

    Class=input("Enter your class : ")

    location=input("Enter your location : ")

    bus_fee=input("Enter your bus_fee : ")

    route=input("Enter your route number : ")

    sql="insert into
bus_fee(adm_no,name,class,location,bus_fee,route_no)
values('%d','%s','%s','%s','%s','%s')%s
(adm_no,name,Class,location,bus_fee,route)

    cursor.execute(sql)

    conn.commit()

    conn.close()

    return("bus fees added successfull.....")
```

```
#defining a function bus_fee for bus fees payment
```

```
def bus_payment():

    conn=mysql.connector.connect(host="localhost",user="root",password="hariom123",database="mcv")
```

```
cursor=conn.cursor()
name=input("Enter your name : ")
Class=input("Enter your class :")
bus_fee=input("Enter your bus_fee :")
today=date.today()
sql="insert into
bus_payment(name,class,bus_fee,date_of_payment)
values('%s','%s','%s','%s')%(name,Class,bus_fee,today)
cursor.execute(sql)
conn.commit()
conn.close()
return("Payment is successfull.....")
```

```
#defining a function books_payment for payment of the books
purchased by the student
def books_payment():

conn=mysql.connector.connect(host="localhost",user="root",password="hariom123",database="mcv")

cursor=conn.cursor()
name=input("Enter your name : ")
Class=input("Enter your class :")
books_fee=input("Enter your books fee :")
today=date.today()
```

```
sql="insert into  
books_payment(name,class,books_fee,date_of_payment)  
values('%s','%s','%s','%s')%(name,Class,books_fee,today)  
cursor.execute(sql)  
conn.commit()  
conn.close()  
return("Payment is successfull.....")
```

```
#defining a function books_fee for manually entering the books fee  
of the student  
  
def books_fee():  
  
conn=mysql.connector.connect(host="localhost",user="root",passwo  
rd="hariom123",database="mcv")  
  
cursor=conn.cursor()  
  
ad_no=int(input("enter admission number:"))  
name=input("Enter your name : ")  
Class=input("Enter your class : ")  
books_fee=input("Enter your books fee : ")  
  
sql="insert into books_fee(adm_no,name,class,books_fee)  
values('%d','%s','%s','%s')%(ad_no,name,Class,books_fee)  
cursor.execute(sql)  
conn.commit()
```

```
conn.close()
return("Books fee added successfull.....")

#defining a function school_fee for manually entering the school fee
# of the student

def school_fee():

    conn=mysql.connector.connect(host="localhost",user="root",password="hariom123",database="mcv")

    cursor=conn.cursor()

    adm_no=int(input("Enter your admission number :"))

    name=input("Enter your name :")

    Class =input("Enter your class :")

    term_1=input("Enter your term 1 fee :")

    term_2=input("Enter your term 2 fee :")

    term_3=input("Enter your term 3 fee :")

    sql="insert into
school_fee(adm_no,name,class,term_1,term_2,term_3)
values('%d','%s','%s','%s','%s','%s')"% (adm_no,name,Class,term_1,term_2,term_3)

    cursor.execute(sql)

    conn.commit()

    conn.close()

    return("School fees added successfull.....")
```

```
#defining a function school_payment for payment of the school term feeses

def school_payment():

    conn=mysql.connector.connect(host="localhost",user="root",password="hariom123",database="mcv")

    cursor=conn.cursor()

    name=input("Enter your name : ")

    Class=input("Enter your class : ")

    term=input("Enter your term : ")

    amount=input("Enter amount : ")

    today=date.today()

    sql="insert into
    school_payment(name,class,term,amount,date_of_payment)
    values('%s','%s','%s','%s','%s')"% (name,Class,term,amount,today)

    cursor.execute(sql)

    conn.commit()

    conn.close()

    return("Payment is successfull.....")
```

```
#defining a function new_admission for entering data of a new
student

def new_admission():

    conn=mysql.connector.connect(host="localhost",user="root",passwo
rd="hariom123",database="mcv")

    cursor=conn.cursor()

    adm_no=int(input("Enter your admission number :"))

    name=input("Enter your name :")

    Class=input("Enter your class :")

    address=input("Enter your address :")

    phone=input("Enter your mobile number :")

    email=input("enter your email :")

    aadhar=input("Enter your aadhar number :")

    mname=input("Enter your mother name :")

    fname=input("Enter your father name :")

    sql="insert into
new_admission(adm_no,name,class,address,phn_no,email,aadhar,m
other_name,father_name) values
('%d','%s','%s','%s','%s','%s','%s','%s')%"%(adm_no,name,Class,add
ress,phone,email,aadhar,mname,fname)

    cursor.execute(sql)

    conn.commit()

    conn.close()

    return("New student added successfully.....")
```

```
#calling the functions and designing the interface

while True:

    print()

    print("-"*90)

    print("\t\t\t\t\tHari om!!")

    print("\n\t\t\t\tMarg Chinmaya Vidyalaya")

    print("1.Admission\n")

    print("2.Fees\n")

    print("3.Staff\n")

    print("4.Classes\n")

    print("5.Payment\n")

    print("6.Non-teaching staff \n")

    print("7.Office staff\n")

    print("8.Board of manging directors\n")

    print("9.Lab details \n")

    print("10.Exit\n")

    a=int(input("Enter your choice(1-10)....."))

    print("-"*90)

    if a==1:

        print("\t\t\t\t\t----ADMISSION----")

        print("1.New admission\n")

        print("2.Total admissions\n")
```

```
x=int(input("enter your choice(1-2).."))

if x==1:

    print("\t\t\t\tNEW-ADMISSION\n\n")
    print(new_admission())

else:

    print(total())


elif a==5:

    print("\t\t\t\t----PAYMENT----")
    print("1.School fee payment\n")
    print("2.Bus fee payment\n ")
    print("3.Books fee payment\n")

    z=int(input("Enter your choice(1-3)..."))

    if z==1:

        print("\t\t\t\t----SCHOOL FEE PAYMENT----")
        print(school_payment())

    elif z==2:

        print("\t\t\t\t----SCHOOL FEE PAYMENT----")
        print(bus_payment())

    elif z==3:

        print("\t\t\t\t----BOOKS FEE PAYMENT----")
        print(books_payment())
```

```
elif a==2:  
    print("\t\t\t\t\t-----FEEs-----")  
    print("1.School fee\n")  
    print("2.Books fee\n")  
    print("3.Bus fee\n")  
    w=int(input("Enter your choice(1-3)....."))  
    if w==1:  
        print("\t\t\t\t\t-----SCHOOL FEE-----")  
        print(school_fee())  
    elif w==2:  
        print("\t\t\t\t\t-----BOOKS FEE-----")  
        print(books_fee())  
    elif w==3:  
        print("\t\t\t\t\t-----BUS FEE-----")  
        print(bus_fee())
```

#retrieving the information stored in text files

```
elif a==3:  
    print("-----STAFF OF CHINMAYA VIDYALAYA-----")  
    x=open("staff.txt","r")  
    a=x.read()
```

```
print(a)

elif a==4:
    print("-----CLASSES-----")
    x=open("class.txt","r")
    a=x.read()
    print(a)

elif a==9:
    print("-----LAB DETAILS-----")
    x=open("lab.txt","r")
    a=x.read()
    print(a)

elif a==6:
    print("-----NON TEACHING STAFF-----")
    x=open("non_teach.txt","r")
    a=x.read()
    print(a)

elif a==7:
    x=open("office.txt","r")
    a=x.read()
    print(a)

elif a==8:
    x=open("board.txt","r")
    a=x.read()
    print(a)
```

```
#coming out of the interface if user entered
```

```
elif a==10:
```

```
    break
```

SQL TABLES:

```
mysql> show tables;
+-----+
| Tables_in_mcv |
+-----+
| books_fee      |
| books_payment  |
| bus_fee         |
| bus_payment    |
| class          |
| new_admission  |
| school_fee     |
| school_payment |
| staff          |
+-----+
9 rows in set (0.00 sec)
```

```
mysql> desc books_fee;
+-----+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| adm_no | int(20) | NO   | PRI | NULL    |       |
| name   | varchar(30) | YES  |     | NULL    |       |
| class  | int(3)  | YES  |     | NULL    |       |
| books_fee | int(7) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)
```

```
mysql> desc bus_fee;
+-----+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| adm_no | int(20) | NO   | PRI | NULL    |       |
| name   | varchar(30) | YES  |     | NULL    |       |
| class  | int(3)  | YES  |     | NULL    |       |
| location | varchar(30) | YES  |     | NULL    |       |
| bus_fee | int(7) | YES  |     | NULL    |       |
| route_no | int(3) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

```
mysql> desc new_admission;
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| adm_no | int(20) | NO   | PRI | NULL    |       |
| name   | varchar(30)| YES  |      | NULL    |       |
| class  | varchar(20)| YES  |      | NULL    |       |
| address | varchar(30)| YES  |      | NULL    |       |
| phn_no | varchar(20)| YES  |      | NULL    |       |
| email  | varchar(30)| YES  |      | NULL    |       |
| aadhar | varchar(30)| YES  |      | NULL    |       |
| mother_name | varchar(30)| YES  |      | NULL    |       |
| father_name | varchar(30)| YES  |      | NULL    |       |
+-----+-----+-----+-----+-----+
9 rows in set (0.01 sec)
```

```
mysql> desc school_fee;
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| adm_no | int(20) | NO   | PRI | NULL    |       |
| name   | varchar(30)| YES  |      | NULL    |       |
| class  | int(3)  | YES  |      | NULL    |       |
| term_1 | varchar(30)| YES  |      | NULL    |       |
| term_2 | varchar(30)| YES  |      | NULL    |       |
| term_3 | varchar(30)| YES  |      | NULL    |       |
+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

```
mysql> desc school_payment;
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| name  | varchar(30) | YES  |      | NULL    |       |
| class | int(3)  | YES  |      | NULL    |       |
| term  | varchar(30) | YES  |      | NULL    |       |
| amount | varchar(30) | YES  |      | NULL    |       |
| date_of_payment | varchar(30) | YES  |      | NULL    |       |
+-----+-----+-----+-----+-----+
5 rows in set (0.03 sec)
```

```
mysql> desc books_payment;
```

Field	Type	Null	Key	Default	Extra
name	varchar(30)	YES		NULL	
class	int(7)	YES		NULL	
books_fee	varchar(30)	YES		NULL	
date_of_payment	varchar(30)	YES		NULL	

4 rows in set (0.01 sec)

```
mysql> desc bus_payment;
```

Field	Type	Null	Key	Default	Extra
name	varchar(20)	YES		NULL	
class	varchar(20)	YES		NULL	
bus_fee	varchar(20)	YES		NULL	
date_of_payment	varchar(20)	YES		NULL	

4 rows in set (0.01 sec)

PYTHON OUTPUT:

```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
>>> Type "help", "copyright", "credits" or "license()" for more information.
>>> RESTART: C:\Users\Admin\AppData\Local\Programs\Python\Python310\mcv project.py
-----
Hari om!!

Marg Chinmaya Vidyalaya
1.Admission
2.Fees
3.Staff
4.Classes
5.Payment
6.Non-teaching staff
7.Office staff
8.Board of managing directors
9.Lab details
10.Exit
Enter your choice(1-10).....
Ln: 30 Col: 28
10:46 22-10-2022
```

```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
Marg Chinmaya Vidyalaya
1.Admission
2.Fees
3.Staff
4.Classes
5.Payment
6.Non-teaching staff
7.Office staff
8.Board of managing directors
9.Lab details
10.Exit
Enter your choice(1-10)....1
-----
----ADMISSION----
1.New admission
2.Total admissions
enter your choice(1-2)...|
Ln: 37 Col: 24
10:46 22-10-2022
```

```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
10.Exit
Enter your choice(1-10).....1
-----ADMISSION-----
1.New admission
2.Total admissions
enter your choice(1-2)..1
NEW-ADMISSION

Enter your admission number : 102
Enter your name : S.hiten
Enter your class : 12
Enter your address : vani nagar
Enter your mobile number :7842400161
enter your email : hiten123@gmail.com
Enter your aadhar number : 3424 5464 5434
Enter your mother name : shobha
Enter your father name : dhanunjay
New student added successfully.....
-----
Hari om!!
Marg Chinmaya Vidyalaya
1.Admission
Ln: 50 Col: 0
10:48
22-10-2022
```

```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
8.Board of managing directors
9.Lab details
10.Exit
Enter your choice(1-10).....1
-----ADMISSION-----
1.New admission
2.Total admissions
enter your choice(1-2)..2
Total number of admissions are :
(102, 'S.hiten', '12', 'vani nagar', '7842400161', 'hiten123@gmail.com', '3424 5464 5434', 'shobha',
'dhanunjay')
(201, 'S.Hiten', '12', 'avilala', '7842400161', 'hiten123@gmail.com', '3243 3423 6587', 'shobha',
'dhananjay')
(1021, 'D.Gokul', '12', 'ramaraju kandriga', '2345332561', 'gokul@gmail.com', '5435 3456 3245', 'go
wri', 'madhav')
()

-----
Hari om!!
Marg Chinmaya Vidyalaya
1.Admission
Ln: 84 Col: 0
10:48
22-10-2022
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

class_name	class_teacher	class_strength
UKG	Madhavi	30
LKG	Malavika	32
1	Divya	29
2	Mohan	35
3	Malavika	33
4	Nikhil	29
5	Mohan	35
6(A)	Suhas	34
6(B)	Vishnu	35
7(A)	Anjali	33
7(B)	Pushpa	30
7(C)	Amar	34
8(A)	Leena	34
8(B)	Ashok	31
8(C)	soundharya	30
9(A)	Tejesh	27
9(B)	Pavan kumar	30
10(A)	ramakrishna	23
10(B)	mallikarjun	43
11(MPC)	jayachandra	34
11(MBIPC)	yugandar	43
12(MPC)	Manoj	35
12(MBIPC)	vijay	45

Ln: 177 Col: 47
10:49 22-10-2022

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

6. Non-teaching staff

7. Office staff

8. Board of managing directors

9. Lab details

10. Exit

Enter your choice(1-10).....9

-----LAB DETAILS-----

lab_name	classes_allowed	lab_incharge
maths lab	6-12	ramakrishna
physics lab	9-12	pavan kumar
chemistry lab	9-12	venkat
computer lab	9-12	divya

Hari om!!

Marg Chinmaya Vidyalaya

1. Admission

Ln: 241 Col: 0
10:49 22-10-2022

```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
9.Lab details
10.Exit

Enter your choice(1-10).....3
-----STAFF OF CHINMAYA VIDYALAYA-----
+-----+-----+-----+-----+
| s_no | name      | subject    | classes_allocated | class_teacher |
+-----+-----+-----+-----+
| 1   | B.Ramakrishna | Maths       | 9-12          | no           |
| 2   | Pavankumar    | Physics     | 9-12          | 9            |
| 3   | K.Mallikarjun | Science(botany)| 9-12         | 8            |
| 4   | Jayachandra   | Science(zoology)| 9-12        | 10           |
| 5   | venkat        | Science(chemistry)| 9-12       | 11           |
| 6   | Madhavi        | Computer Science | 11-12        | 12           |
| 7   | chandrasekhar | comm,eco,acc  | 11-12        | no           |
| 8   | neelima        | English      | 10-12        | No           |
| 9   | Divya          | Computer Science | 6-8          | 6            |
| 10  | Leena          | Computer Science | 6-8          | 7            |
| 11  | Mennakshi     | maths        | 6-8          | 5            |
| 12  | malavika       | social       | 6-8          | no           |
| 13  | kalpana        | telugu       | 6-10         | no           |
| 14  | krishna kishore | Science     | 6-10         | no           |
| 15  | alikan         | PET          | 6-12         | no           |
+-----+-----+-----+-----+
Ln: 136 Col: 0
10:48
22-10-2022
```

```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
6.Non-teaching staff
7.Office staff
8.Board of manging directors
9.Lab details
10.Exit

Enter your choice(1-10).....8
-----BOARD OF MANGING DIRECTORS-----
GEETA MENON-----CORRESPONDANT
O.A NAMBIAR-----DIRECTOR
SATYAMURTHI-----DIRECTOR(PRINCIPAL-CV,COIMBATORE)
B.NEELIMA-----BOARD MEMBER(PRINCIPAL-CV,TIRUPATI)

-----Hari om!!
-----Marg Chinmaya Vidyalaya
1.Admission
Ln: 286 Col: 0
10:50
22-10-2022
```

```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
6.Non-teaching staff
7.Office staff
8.Board of manging directors
9.Lab details
10.Exit
Enter your choice(1-10).....7
-----OFFICE STAFF-----
CHARUMATHI-----ACCOUNTANT
SURESH-----VAN INCHARGE
RAMESH-----ASST.ACCT
KAMESHWARI-----ASST.ACCT
-----Hari om!!
Marg Chinmaya Vidyalaya
1.Admission
Ln: 360 Col: 0
10:50 22-10-2022
```

```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
2.Fees
3.Staff
4.Classes
5.Payment
6.Non-teaching staff
7.Office staff
8.Board of manging directors
9.Lab details
10.Exit
Enter your choice(1-10).....5
-----PAYMENT-----
1.School fee payment
2.Bus fee payment
3.Books fee payment
Enter your choice(1-3)...
Ln: 40 Col: 25
10:51 22-10-2022
```

```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
2.Fees
3.Staff
4.Classes
5.Payment
6.Non-teaching staff
7.Office staff
8.Board of manging directors
9.Lab details
10.Exit
Enter your choice(1-10).....2
-----FEEs-----
1.School fee
2.Books fee
3.Bus fee
Enter your choice(1-3)....|
```

```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
6.Non-teaching staff
7.Office staff
8.Board of manging directors
9.Lab details
10.Exit
Enter your choice(1-10).....6
-----NON TEACHING STAFF-----
+-----+-----+-----+
| name | job | work |
+-----+-----+-----+
| muni reddy | attender | 1st floor incharge |
| muni krishna | attender | 2nd floor incharge |
| ramesh | driver | 3rd floor incharge |
| suresh | driver | 4th floor incharge |
+-----+-----+-----+
-----+
Hari om!!
Marg Chinmaya Vidyalaya
1.Admission
```

CONCLUSION:

Since we are entering details of the students electronically in the “Chinmaya Vidyalaya school Management” Project, data will be secured. Using This Project we can retrieve students details from MYSQL Database through PYTHON Code. Thus processing information will be faster. It guarantees accurate maintenance of student,school and school Payment details. It easily reduces the book keeping task and thus reduces the human effort

BIBLIOGRAPHY:

- Computer science by sumita aurora
- www.python.org
- www.mysql.org
- Python fundamentals by
MaliniGupta