United Indian School
ABU DHABI

PROJECT RECORD

2022-2023

WILDLIFE ZOO GUIDES

Roll No._____

Name: _____

Class:_____ Sec:_____

Subject:_____

EDUCATION

Certificate

Roll No. _____

This is to certify that Miss/Master_____ of grade _____ section _____ has carried out project work in Assignment prescribed by the Central Board of Secondary Education, New Delhi during the academic year 2021-2022.

Teacher-in charge: Dr. Harini Priyadharsini

Date: _____

_____ _____

External Examiner Internal Examiner

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ACKNOWLEDGEMENT

I would like to express my gratitude to all that who have helped me successfully complete my project .

First of all, I would like to thank my teacher : Dr. Harini Priyadharsini for guiding me throughout this project and helping me with the necessary information.

I would even like to thank my peers who have supported me in the completion of my project.

Words cannot express the gratitude I have to my parents who have supported me with the necessary materials.

I am very much obliged to the school faculty especially the senior leadership team of our school for providing us the facilities required for this project.

INTRODUCTION

Building a scheduled routine for any job is hard because firstly, it is difficult to construct and its time consuming. Second, it is difficult to remember it because at the end of the day, we are humans and we tend to forget a lot of things.

In my project, it deals with zoo guides. In order for them to establish a routine from start till the end of the day, recording and programming that routine in python will help them to get their jobs done with ease. With the many customers and customization that each customer requires, python with the help of MySQL will help keep track.

The code consists of a menu in which you can insert, edit, delete and also exit the main menu. Each option has been specifically defined to which it is assigned to carry out a specific task.

When we select an option that we want from the menu bar, the assigned function is called and the result is stored in a tabular form in MySQL as it is based on the SQL-python connectivity.

We connect MySQL with python for the better efficiency of database handling as well as for the ease of coding in python.

SYNOPSIS

It is a business group that helps plan, organize and guide a customer's day at the zoo. People who need help making a routine for a day at the zoo, ranging from animals to activities can use the wildlife zoo guides. They help plan out a visitor's entire day, having almost everything for them to see without wasting time.

Objectives:

1. To make them have fun and make safety their top priority

2. To relieve pressure by creating a routine and also guiding them at the zoo

3. To instill knowledge about the zoo and its animals

4. To give them a new experience

Benefits:

1.Make their day feel organized and hassle free

2. A day filled with activities and new experiences

3. And like all other zoos, getting to see and know all animals

SYSTEM DESCRIPTION

PYTHON

Filename name - MySQL CBSE project code.py

Import statements: import mysql.connector as m

Built in functions: Cursor()

Fetchall()

Excecute()

Commit()

User defined functions:

1.Insert_details()
2.Insert_activities()
3.Insert_food()
4.Display_details()
5.Display_activities()
6.Display_food()
7.Edit_details()
8.Edit_activities()
9.Edit_food()
10.Delete_details()
11.Delete_activities()
12.Delete_food()

Variables:

Cnt_ppl- no. of members per family

Food- preferred meal by customer

Animal- preferred animal to see

Activity- preferred activity to be done by the customers

MySQL

Database: zoo

Tables : Activities

mysql> desc activities;

```
+----------+----------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+----------+----------+------+-----+---------+-------+
| sl_no | int(5) | NO | PRI | NULL | |
| food | char(30) | YES | | NULL | |
| animal | char(10) | YES | | NULL | |
| activity | char(20) | YES | | NULL | |
+----------+----------+------+-----+---------+-------+
```

Table : Details

mysql> desc details;

```
+---------+----------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+---------+----------+------+-----+---------+-------+
| sl_no | int(5) | NO | PRI | NULL | |
| name | char(30) | YES | | NULL | |
```

| cnt_ppl | int(10) | YES | | NULL | |

| price | int(10) | YES | | NULL | |

| contact | int(11) | YES | | NULL | |

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

Table : Food

mysql> desc food;

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

| Field | Type | Null | Key | Default | Extra |

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

| sl_no | int(5) | NO | PRI | NULL | |

| preference | char(30) | YES | | NULL | |

| drinks | char(20) | YES | | NULL | |

| allergies | char(20) | YES | | NULL | |

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

PROGRAM CODING

```
#MySQL CBSE project- Wildlife Zoo Guides


#insert values into the table details
import mysql.connector as m
con=m.connect(host='localhost', user='root', password='root', database='zoo')
if con.is_connected():
print('Successfully connected!')
else:
print('Error in connection')
cursor=con.cursor()
def insert_details():
while True:
sl_no=int(input('Enter the serial number:'))
name=input('Enter the name:')
cnt_ppl=int(input('Enter the members per family:'))
price=int(input('Enter the amount:'))
contact=int(input('Enter the contact:'))
sql="insert into details values({},'{}',{},{},{})".format(sl_no, name, cnt_ppl, price, contact)
cursor.execute(sql)
con.commit()
ch=input('Do you want to continue(y/n):')
if ch.lower()!='y':
break
```

```
#insert values into the table activities
def insert_activities():
while True:
sl_no=int(input('Enter the serial number:'))
food=input('Enter the preferred food:')
animal=input('Enter the preferred animal:')
activity=input('Enter the preferred activivty:')
sql="insert into activities values({},'{}','{}','{}')".format(sl_no, food, animal, activity)
cursor.execute(sql)
con.commit()
ch=input('Do you want to continue(y/n):')
if ch.lower()!='y':
break

#insert values into the table food
def insert_food():
while True:
sl_no=int(input('Enter the serial number:'))
preference=input('Enter the preferred food:')
drinks=input('Enter the preferred drink:')
allergies=input('Enter their allergies:')
sql="insert into food values({},'{}','{}','{}')".format(sl_no, preference, drinks, allergies)
cursor.execute(sql)
con.commit()
ch=input('Do you want to continue(y/n):')
if ch.lower()!='y':
```

```
break


#display the table details
def display_details():
sql='select * from details'
cursor.execute(sql)
rs=cursor.fetchall()
print('-'*75)
for i in rs:
for j in i:
print(j,end='\t |')
print()
print('-'*75)


#display the table activities
def display_activities():
sql='select * from activities'
cursor.execute(sql)
rs=cursor.fetchall()
print('-'*75)
for i in rs:
for j in i:
print(j,end='\t |')
print()
print('-'*75)
```

```
#display the table food
def display_food():
sql='select * from food'
cursor.execute(sql)
rs=cursor.fetchall()
print('-'*75)
for i in rs:
for j in i:
print(j,end='\t |')
print()
print('-'*75)

#edit records from the table details
def edit_details():
cnt_ppl=int(input('Enter the cnt_ppl to be updated:'))
price=int(input('Enter the new price:'))
sql="update details set price={} where cnt_ppl={}".format(price, cnt_ppl)
cursor.execute(sql)
con.commit()
print('Edited successfully!')

#edit records from the table activities
def edit_activities():
activity=input('Enter the activity to be updated:')
animal=input('Enter the new animal:')
```

```
sql="update activities set animal='{}' where activity='{}'".format(animal, activity)
cursor.execute(sql)
con.commit()
print('Edited successfully!')

#edit records from the table food
def edit_food():
preference=input('Enter the preference to be updated:')
drinks=input('Enter the new drink:')
sql="update food set drinks='{}' where preference='{}'".format(drinks, preference)
cursor.execute(sql)
con.commit()
print('Edited successfully!')

#delete records from the table details
def delete_details():
sql='delete from details where sl_no=4'
cursor.execute(sql)
con.commit()
print('Deleted successfully!')

#delete records from the table activities
def delete_activities():
sql='delete from activities where sl_no=4'
```

```
cursor.execute(sql)

con.commit()

print('Deleted successfully!')


#delete records from the table food

def delete_food():

sql='delete from food where sl_no=4'

cursor.execute(sql)

con.commit()

print('Deleted successfully!')


while True:

print('\n 1.Insert_details \n 2.Insert_activities \n 3.Insert_food \n 4.Display_details \n
5.Display_activities \n 6.Display_food \n 7.Edit_details \n 8.Edit_activities \n 9.Edit_food \n
10.Delete_details \n 11.Delete_activities \n 12.Delete_food \n 13.exit \n')

choice=int(input('Enter your choice:'))

if choice==1:

insert_details()

elif choice==2:

insert_activities()

elif choice==3:

insert_food()

elif choice==4:

display_details()

elif choice==5:
```

```
display_activities()
elif choice==6:
display_food()
elif choice==7:
edit_details()
elif choice==8:
edit_activities()
elif choice==9:
edit_food()
elif choice==10:
delete_details()
elif choice==11:
delete_activities()
elif choice==12:
delete_food()
elif choice==13:
print('Thank you!')
break
```

Output

→Menu

Successfully connected!

1.Insert_details

2.Insert_activities

3.Insert_food

4.Display_details

5.Display_activities

6.Display_food

7.Edit_details

8.Edit_activities

9.Edit_food

10.Delete_details

11.Delete_activities

12.Delete_food

13.exit

→ Inserting records

Enter your choice:1

Enter the serial number:5

Enter the name:Anthony Dias

Enter the members per family:5

Enter the amount:400

Enter the contact:0567816235

Do you want to continue(y/n):n

Enter your choice:2

Enter the serial number:5

Enter the preferred food:non-veg

Enter the preferred animal:ostrich

Enter the preferred activivty:race course

Do you want to continue(y/n):n

Enter your choice:3

Enter the serial number:5

Enter the preferred food:beef stew

Enter the preferred drink:pepsi

Enter their allergies:pine nuts

Do you want to continue(y/n):n

→ Displaying Records

Enter your choice:4

---

1 |Sam Chavez |2 |160 |507965026 |

2 |Riya Collin |4 |300 |564032758 |

3 |Sandy John |3 |240 |564012739 |

4 |Gina Sallie |1 |80 |557734982 |

5 |Anthony Dias |5 |400 |567816235 |

Enter your choice:5

---

1 |veg |Snake |Deepwater swim |

2 |non-veg |Lion |paddling |

3 |non-veg |Falcon |zipline |

4 |veg |Owl |Aquarium Tour |

5 |non-veg |ostrich |race course |

Enter your choice:6

---

1 |paneer with rice |mango juice |nuts |

2 |mutton soup |fanta |honey |

3 |chicken pasta |sprite |vitamin c |

4 |dal with roti |water |nuts |

5 |beef stew |pepsi |pine nuts |

→ Updating Records

Enter your choice:7

Enter the cnt_ppl to be updated:4

Enter the new price:320

Edited successfully!

Enter your choice:8

Enter the activity to be updated:paddling

Enter the new animal:tiger

Edited successfully!

Enter your choice:9

Enter the preference to be updated:paneer with rice

Enter the new drink:orange juice

Edited successfully!

→ Deleting the records

Enter your choice:10

Deleted successfully

Enter your choice:11

Deleted successfully

Conclusion

We have a successfully working MySQL-python connectivity program which can help zoo guides maintain a hasty free routine. This is helpful in storing essential information and this will also be of great help in their career.

Observation, benefits & uses

This would really help not only zoo guides but also for any job that requires to construct and manage a routine. With the help of the MySQL and python connectivity, programming this code proved to be really helpful. Anything that looks complex can be programmed into python and then be converted to a tabular format in MySQL which will make it clear to understand.

Bibliography

SITE REFERRED:

www.stackoverflow.com

Books used :

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2. Computer Science with Python class XI by Preeti Arora