### NAIPUNNYA PUBLIC SCHOOL KOCHI SEAPORT-AIRPORT ROAD, THRIKKAKARA, KOCHI -682021



# COMPUTER SCIENCE PRACTICAL RECORD TERM-2

REG NO: YEAR:					
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PRINCIPAL		Teacher-in-charge			
	Practical Examination held on				
Examiner:		Date			

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# PRACTICALS TERM 2 – PYTHON QUESTIONS

QUESTION	OBJECTIVE & SOLUTIONS				
NO.					
1.	Write a program to implement all basic operations of stack, such as adding element (PUSH), removing element(POP) and displaying the stack elements(TRAVERSAL) using				
	list.				
	stack=[] n=int(input('Enter the limit : '))  def PUSH():				
	if isFull():				
	print('Stack overflow.')				
	else:				
SOURCE	x=eval(input('Enter the element : '))				
CODE:	stack.append(x)				
	def POP():				
	if isEmpty():				
	print('Stack underflow.')				
	else:				
	stack.pop()				
	def TRAVERSAL():				
	if isEmpty():				
	print('Stack underflow')				
	else:				

```
for i in stack[::-1]:
       print(i)
def PEEK():
  if isEmpty():
     print('Stack underflow')
  else:
     print(stack[-1])
def isFull():
  if len(stack)==n:
     return True
  else:
     return False
def isEmpty():
  if len(stack)==0:
     return True
  else:
     return False
while True:
  print('1.Push\n2.Pop\n3.Peek\n4.Traversal\n5.Exit')
  c=int(input('Enter your choice : '))
  if c==1:
     print()
     x=int(input('Enter the limit (max=%s): '%(n-len(stack))))
     for i in range(x):
       PUSH()
```

```
elif c==2:
POP()
elif c==3:
print('The last element is :',end=' ')
PEEK()
elif c==4:
print('The elements are :')
TRAVERSAL()
elif c==5:
break
else:
print('Invalid entry.')
print()
```

	Enter the limit: 3
	1.Push
	2.Pop
	3.Peek
	4.Traversal
	5.Exit
	Enter your choice: 1
	Enter the limit (max=3): 3
	Enter the element: 1
	Enter the element : 2
	Enter the element : 3
OUTPUT:	
	1.Push
	2.Pop
	3.Peek
	4.Traversal
	5.Exit
	Enter your choice : 2
	1.Push
	2.Pop
	3.Peek
	4.Traversal
	5.Exit
	Enter your choice: 3

The last element is: 2
1.Push
2.Pop
3.Peek
4.Traversal
5.Exit
Enter your choice: 4
The elements are :
1
1.Push
2.Pop
3.Peek
4.Traversal
5.Exit
Enter your choice : 5
>>>

QUESTION	OBJECTIVE & SOLUTIONS				
NO.					
2.	Write a program to display unique vowels present in the given word using stack.				
	def PUSH(x):				
	stack.append(x)				
	def TRAVERSAL(x):				
	for i in stack[::-1]:				
	print(i)				
SOURCE	x=input('Enter the word : ')				
CODE:	v='aeiou'				
	stack=[]				
	for i in x:				
	if i.lower() in v and i not in stack:				
	PUSH(i)				
	TRAVERSAL(stack)				
	1)Enter the word : Computer				
	e				
	u				
OUTPUT:	0				
	2)Enter the word : Source				
	e				
	u				

О
2) Enten the grand of Output
3)Enter the word : Output
u
u

QUESTION	OBJECTIVE & SOLUTIONS				
NO.					
3.	Write a menu based program to perform push and pop operations on a Stack.				
	Each node of the Stack contains the following Member's details as given below:				
	Member id integer				
	Member Name string				
	Age integer				
	stack=[]				
	n=int(input('Enter the limit : '))				
	def PUSH():				
	if isFull():				
	print('Stack overflow.')				
	else:				
SOURCE	l=[]				
	l.append(int(input('Enter the Member Id: ')))				
CODE:	l.append(input('Enter the Member name : '))				
	l.append(int(input('Enter the age : ')))				
	stack.append(l)				
	def POP():				
	if isEmpty():				
	print('Stack underflow.')				
	else:				
	stack.pop()				

```
def TRAVERSAL():
  if isEmpty():
    print('Stack underflow')
  else:
    for i in stack[::-1]:
       print('Member Id : %s\nMember Name : %s\nAge :
%s\n'\%(i[0],i[1],i[2]))
def PEEK():
  if isEmpty():
    print('Stack underflow')
  else:
    print('Member Id : %s\nMember Name : %s\nAge :
%s\n'%(stack[-1][0],stack[-1][1],stack[-1][2]))
def isFull():
  if len(stack)==n:
     return True
  else:
    return False
def isEmpty():
  if len(stack)==0:
     return True
  else:
     return False
while True:
```

```
print('1.Push\n2.Pop\n3.Peek\n4.Traversal\n5.Exit')
c=int(input('Enter your choice : '))
print()
if c==1:
  print()
  if isFull():
     print('Stack overflow.')
     continue
  x=int(input('Enter the limit (max=%s): '%(n-len(stack))))
  for i in range(x):
     if isFull():
       print('Stack overflow.')
       continue
     PUSH()
elif c==2:
  POP()
elif c==3:
  print('The last element is :')
  PEEK()
elif c==4:
  print('The elements are :')
  TRAVERSAL()
elif c==5:
  break
else:
  print('Invalid entry.')
```

	print()			
	Enter the limit: 2			
	1.Push			
	2.Pop			
	3.Peek			
	4.Traversal			
	5.Exit			
	Enter your choice: 1			
	Enter the limit (max=2): 2			
	Enter the Member Id: 1			
	Enter the Member name : a			
	Enter the age: 2			
OUTPUT:	Enter the Member Id : 2			
	Enter the Member name : b			
	Enter the age: 2			
	1.Push			
	2.Pop			
	3.Peek			
	4.Traversal			
	5.Exit			
	Enter your choice: 1			
	Stack overflow.			
	1.Push			
	2.Pop			

3.Peek
4.Traversal
5.Exit
Enter your choice: 2
1.Push
2.Pop
3.Peek
4.Traversal
5.Exit
Enter your choice: 1
Enter the limit (max=1): 1
Enter the Member Id: 2
Enter the Member name : b
Enter the age: 3
1.Push
2.Pop
3.Peek
4.Traversal
5.Exit
Enter your choice: 3
The last element is:
Member Id: 2
Member Name : b
Age: 3

1 D .1
1.Push
2.Pop
3.Peek
4.Traversal
5.Exit
Enter your choice: 4
The elements are :
Member Id: 2
Member Name : b
Age: 3
Member Id: 1
Member Name : a
Age: 2
1.Push
2.Pop
3.Peek
4.Traversal
5.Exit
Enter your choice: 5
>>>

# PRACTICALS TERM 2 – SQL QUESTIONS

QUESTION	OBJECTIVE & SOLUTIONS								
NO.									
Table : <b>Employee</b>									
	EmpNo	EmpNa	ame	Salary	Zone	Age	Grade	DeptId	
	1001	R Jain		30000	West	28	A	10	
	1002	H Sinha	a	35000	Centr e	30	A	10	
	1003	R Bajpa	iyee	35000	West	40	NULL	20	
	1004	T Prasa	d	38000	North	38	C	30	
	1005	S Maha	jan	48000	East	26	NULL	20	
	1006	H Singl	ı	34000	South	28	В	10	
	1007	Shelly		36000	North		A	30	
	1008	PK Swa		18000	East		B	40	
	1009	S Tripathi		26000	West		C	10	
	1010	Kamal 1	D	17000	North	32	NULL	40	
	_		Ta	able : <b>I</b>	Departm	ent			
		Deptid		Name	MinSal	MaxS	al HO	D	
		10	Sales	S	25000	35000			
	2	20	Fina	nce	30000	50000	5		
	3	30	Adm	nin	25000	40000	7		
	40 Marketing 15000 20000 4								
4.	Write SQL Commands for questions (1) to (v) based on the tables Employee &  Department  I. Create tables Employee & Department  II. Insert the first record into the tables Employee & Department								
	III. Display the various department numbers from the table Employee. A department								

	number should be displayed only once					
	number should be displayed only once.					
	IV. Display the employee number, name and salary ofthose employees whose salary is					
	between 35000 and 40000.					
	V. Display the names and salaries of all the employees who are working neither in West					
	zone nor in Centre zone.					
	I. create table Employee(EmpNo int, EmpName varchar(20), Salary int, Zone varchar(10), Age int, Grade char(1), DeptId int); create table Department(Deptid int, DeptName varchar(15), MinSal int, MaxSal int, HOD int);					
SOURCE CODE:	II. insert into Employee values(1001, 'R Jain', 30000, West, 28, 'A', 10); insert into Department values(10, 'Sales', 25000, 35000, 1);					
	III. select distinct DeptId from Employee;					
	IV. select EmpNo, EmpName, Salary from Employee where 35000 <salary<40000;< td=""></salary<40000;<>					
	V. select EmpName, Salary from Employee where Zone not in ('West','Centre');					
OUTPUT:	<pre>mysql&gt; create table Employee(EmpNo int, EmpName varchar(20), Salary int,     Zone varchar(10), Age int, Grade char(1), DeptId int); Query OK, 0 rows affected (0.02 sec)  mysql&gt; Create table Department(Deptid int, DeptName varchar(15), MinSal int, MaxSal int, HOD int); Query OK, 0 rows affected (0.02 sec)</pre>					

mysql> insert into Employee -> values -> (1001, 'R Jain', 30000, 'West', 28, 'A', 10) 2) mysql> insert into Department values(10, 'Sales', 25000, 35000, 1); Query OK, 1 row affected (0.01 sec) 3) DeptId 10 20 30 40 rows in set (0.02 sec) 4) EmpNo **EmpName** Salary 1001 R Jain 30000 H Sinha 1002 35000 R Bajpayee 1003 35000 1004 | T Prasad 38000 S Mahajan 1005 48000 1006 | H Singh 34000 Shelly 1007 36000 PK Swamy 1008 18000 S Tripathi 1009 26000 Kamal D 1010 17000 10 rows in set (0.02 sec)

```
5)
    EmpName
                 Salary
    R Jain
                  30000
   H Sinha
                  35000
    R Bajpayee
                  35000
    T Prasad
                  38000
    S Mahajan
                  48000
   H Singh
                  34000
   Shelly
                  36000
   PK Swamy
                  18000
   S Tripathi |
                  26000
    Kamal D
                  17000
  10 rows in set (0.00 sec)
```

QUESTION	OBJECTIVE & SOLUTIONS				
NO.					
5.	Write SQL Commands for questions (1) to (viii) based on the tables Employee & Department.				
	I. To get the name of the column Deptid to D_id.				
	II. Display the name of those employees whose names starts with 'H'.				
	III. List the name of employees not having any Grade.				
	IV. Display the list of employees in descending order of employee code.				
	V. Find the average salary at each department.				
	VI. Find maximum salary of each department and display the name of that department which has maximum salary more than 37000.				
	VII. To delete the records whose grade is not entered.				
	VIII. Display the name and salary of those employees whose grade is A and from the sales department after incrementing by10%				
	<ul> <li>I. alter table Department change column Deptid D_id int; alter table Employee change column Deptid D_id int;</li> <li>II. select EmpName from Employee where EmpName like 'H%';</li> </ul>				
SOURCE	<ul><li>III. select EmpName from Employee where Grade=Null;</li><li>IV. select * from Employee order by EmpNo desc;</li><li>V. select avg(Salary) from Employee group by D id;</li></ul>				
CODE:	<ul><li>V. select avg(Salary) from Employee group by D_id;</li><li>VI. select max(Salary), DeptName from Employee,</li></ul>				
	Department where Employee.D_id=Department.D_id group by DeptName;				
	VII. delete from Employee where Grade is Null; VIII. select EmpName, Salary*1.1 as Salary from Employee where D_id=10;				

mysql> alter table Department change column Deptid D\_id int;
I. Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> alter table Employee change column Deptid D\_id int;
Query OK, 0 rows affected (0.00 sec)
Records: 0 Duplicates: 0 Warnings: 0

**OUTPUT:** 

IV. EmpNo | EmpName Salary Grade DeptId Zone Age Kamal D NULL 1010 17000 North 32 40 1009 S Tripathi 26000 West 34 С 10 1008 PK Swamy 18000 В 40 East 24 1007 Shelly 36000 North 30 26 Α 1006 H Singh 34000 South 28 10 20 S Mahajan NULL 1005 48000 East 26 38000 North 38 30 1004 T Prasad С 1003 R Bajpayee 35000 West 40 NULL 20 1002 H Sinha 35000 Centre 10 30 Α 1001 R Jain 30000 10 West 28 10 rows in set (0.02 sec)

```
V.
         avg(Salary)
          31250.0000
          41500.0000
          37000.0000
          17500.0000
         rows in set (0.02 sec)
 VI.
        max(Salary)
                            DeptName
                 38000
                            Admin
                            Finance
                 48000
                            Marketing
                 18000
                            Sales
                 35000
        rows in set (0.02 sec)
       mysql> delete from Employee where Grade is Null;
VII.
       Query OK, 3 rows affected (0.01 sec)
       mysql> select * from Employee;
        EmpNo | EmpName
                          | Salary | Zone
                                           Age | Grade | D_id
         1001
               R Jain
                            30000
                                   West
                                             28 | A
                                                          10
         1002
               H Sinha
                            35000
                                                 Α
                                   Centre
                                             30
                                                          10
         1004
              | T Prasad
                                             38 l
                                                 С
                            38000
                                   North
                                                          30
         1006
              | H Singh
                            34000
                                   South
                                             28 | B
                                                          10
              Shelly
         1007
                            36000
                                   North
                                             26 | A
                                                          30
                PK Swamy
         1008
                            18000
                                   East
                                             24
                                                 В
                                                          40
         1009
               S Tripathi
                            26000
                                             34 | C
                                   West
                                                          10
        rows in set (0.00 sec)
VIII.
        EmpName
                     Salary
        R Jain
                     33000.0
        H Sinha
                     38500.0
                     37400.0
        H Singh
        S Tripathi | 28600.0
      4 rows in set (0.01 sec)
```

QUESTION	OBJECTIVE & SOLUTIONS					
NO.						
6.	Write SQL Co	mmano	nmands for questions 1 to 5 based on the table			
	NO NAME	AGE	DEPARTMENT	DOJ	SALAR	Y SEX
	1 Mohitesh	K 34	Computer	01/10/97	12000	M
	2 Jaya Priya	31	History	24/03/98	18000	F
	3 Prachi S	32	Mathematics	12/12/98	30000	M
	4 Mishra A	35	History	07/01/99	40000	F
	5 Maurya T	24	Mathematics	08/05/97	25000	M
	1) To show all information about the teachers whose salary is greater than 20000.					
	2) To list all fe	emale to	eachers who are	e from Hi	story dep	artment.
	3) To list all names of all teachers beginning with 'M' sorted by Name in descending order.					
	4) To count number of teachers with age less than 32.					
	5) To display the maximum salary .					
SOURCE CODE:	<ol> <li>Select * from TEACHER where SALARY&gt;20000;</li> <li>Select NAME from TEACHER where SEX='F';</li> <li>Select NAME from TEACHER where NAME like 'M%' order by NAME desc;</li> <li>Select Count(*) from TEACHER where AGE&gt;32;</li> <li>Select max(SALARY) from TEACHER;</li> </ol>					
OUTPUT:	4 Mis	chi S   nra A   nya T	AGE   DEPARTMENT  32   Mathematics  35   History  24   Mathematics	0000-00-	00 4000	<del></del>

```
2)
    NAME
    Jaya Priya
    Mishra A
    Maurya T
   rows in set (0.00 sec)
3)
    NAME
    Mohitesh K
    Mishra A
    Maurya T
  3 rows in set (0.00 sec)
4)
    Count(*)
  1 row in set (0.01 sec)
5)
    max(SALARY)
          40000
  1 row in set (0.00 sec)
```

QUESTION	OBJECTIVE & SOLUTIONS			
NO.				
7.		mmands for questions 1 tive the output for queries		
	2) To update to 3) To display to 4) To display to 'R'.	TNAME Ravi Shankar Priya Rai Lisa Anand Anita Rai George R  table to add new column able ADMIN by giving all the records in the descendence of staff names the number of teachers in	Il staff 10 yrs experience. ling order of staff name.	
SOURCE CODE:	2) Update AD 3) Select * fro 4) Select coun 'R%';	ADMIN add EXPERIENCE: MIN set EXPERIENCE: om ADMIN order by TNA at(TNAME) from ADMIN at(*), SUBJECT from AD	=10; AME; N where TNAME like	

**OUTPUT:** 

QUESTION	OBJECTIVE & SOLUTIONS				
NO.					
0	Write queries for (i) to (v) based on the table STUDENT				
8.	ST_ID	ST_CODE	ST_NAME	SUBJECT	MARKS
	1	101	Andrew	English	68
	2	102	Neha	Physics	70
	3	103	John	Maths	90
	4	104	Arjun	Science	85
	5	105	Joseph	English	92
	6	106	Prithvi	Maths	83
	7	107	Nehla	English	85
	8	108	Arun	Science	70
	<ol> <li>To get the SUBJECT and the average marks scored by the students in that subject from the table STUDENT.</li> <li>To change the name of the column ST_CODE to ADMN_NO.</li> </ol>				
	3) To get the student names sorted by marks in the descending order.				
	4) To get the number of students who secured more than 80% marks from the table student.				
	5) To get t characters		mes that start	with "a" and a	are at least 5

# 1) Select SUBJECT, avg(MARKS) from STUDENT group by SUBJECT;

- 2) Alter table STUDENT change ST\_CODE ADMN\_NO int;
- 3) Select ST\_NAME from STUDENT order by MARKS desc;
- 4) Select count(\*) from STUDENT where MARKS>80;
- 5) Select ST\_NAME from STUDENT where ST\_NAME like 'A%' and length(ST\_NAME)>4;

#### **OUTPUT:**

**SOURCE** 

**CODE:** 

mysql> Alter table STUDENT change ST\_CODE ADMN\_NO int; Query OK, 0 rows affected (0.01 sec) Records: 0 Duplicates: 0 Warnings: 0 mysql> desc STUDENT; Null Key Field Default | Extra ST ID int(11) YES NULL int(11) ADMN NO YES NULL ST NAME YES varchar(20) NULL varchar(10) **SUBJECT** YES NULL MARKS int(11) YES NUI I rows in set (0.00 sec)

```
3) +-----
    ST_NAME
    Joseph
    John
    Arjun
    Nehla
    Prithvi
    Neha
    Arun
    Andrew
  8 rows in set (0.00 sec)
4)
    count(*)
  1 row in set (0.00 sec)
5) +----
    ST_NAME
    Andrew
    Arjun
  2 rows in set (0.03 sec)
```

# PRACTICALS TERM 2 – SQL INTERFACING WITH PYTHON

QUESTION	OBJECTIVE & SOLUTIONS		
NO.			
9	Write a program to connect Python with MySQL using database connectivity		
	and perform the following operations on data in database BookShop: Fetch,		
	Update and delete the data.		
	A) CREATE A TABLE		
	B) INSERT THE DATA		
	C) UPDATE THE RECORD		
	D) DELETE THE DATA		
SOURCE CODE:	<pre>import mysql.connector mydb=mysql.connector.connect(    host='localhost',    user='root',    password='1125899839733759',    database='bookshop') cursor=mydb.cursor()  #creating the table cursor.execute('create table book(bookno int, bookname varchar(20), price float, author varchar(20),publisher varchar(20))')  while True:    c=int(input('1. Insert data\n2. Update a record.\n3. Delete a record\n4. Exit\nEnter your choice (1,2,3,4): '))    print()    if c==1:    l=()</pre>		
	l+=(int(input('Enter the book number : '))), a=input('Enter the name of the book : ') a=''''+a+''''		

```
1+=(a),
    1+=(eval(input('Enter the price: '))),
     a=input('Enter the name of the author:')
     a='"'+a+'"'
    1+=(a),
     a=input('Enter the publisher:')
     a=""+a+""
    1+=(a),
    cursor.execute('insert into book
values(\%s,\%s,\%s,\%s,\%s)'\%(1))
    mydb.commit()
    print('\nRecord inserted.')
  elif c==2:
    1=[]
    n=int(input('Enter the book number of the record to be
updated:'))
    cursor.execute('select bookno from book')
    for i in cursor:
       for j in i:
         1.append(j)
    if n in 1:
       a=int(input('1. Bookname\n2. Price\n3. Author\n4.
Publisher\nEnter the value to be updated: '))
       if a==1:
         nn=int(input('Enter the new bookname: '))
         cursor.execute('update book set bookname=%s where
bookno=%s'\%(nn,n))
         mydb.commit()
       elif a==2:
         np=eval(input('Enter the new price of the book: '))
         cursor.execute('update book set price=%s where
bookno=%s'\%(np,n))
         mydb.commit()
       elif a==3:
         na=input('Enter the author : ')
         cursor.execute('update book set author=%s where
bookno=%s'\%(na,n))
         mydb.commit()
       elif a==4:
         np=int(input('Enter the publisher : '))
         cursor.execute('update book set publisher=%s where
bookno=%s'\%(np,n))
         mydb.commit()
```

```
else:
          print('Invalid entry.')
          break
     else:
       print('Record not found.')
  elif c==3:
     1=[]
     n=int(input('Enter the book number of the record to be
deleted : '))
     cursor.execute('select bookno from book')
     for i in cursor:
       for j in i:
          1.append(j)
     if n in 1:
       cursor.execute('delete from book where
bookno=%s'\%(n))
       mydb.commit()
       print('Record deleted.')
     else:
       print('Record not found.')
  elif c==4:
     break
  else:
     print('Invalid entry.')
  print()
```

Output in python: 1. Insert data 2. Update a record. 3. Delete a record 4. Exit Enter your choice (1,2,3,4):1Enter the book number: 1 Enter the name of the book: a Enter the price: 2 Enter the name of the author: a Enter the publisher: a **OUTPUT:** Record inserted. 1. Insert data 2. Update a record. 3. Delete a record 4. Exit Enter your choice (1,2,3,4):1Enter the book number: 2 Enter the name of the book: b Enter the price: 4

Enter the name of the author: b

Enter the publisher: b

Record inserted. 1. Insert data 2. Update a record. 3. Delete a record 4. Exit Enter your choice (1,2,3,4):2Enter the book number of the record to be updated: 1 1. Bookname 2. Price 3. Author 4. Publisher Enter the value to be updated: 2 Enter the new price of the book: 1 1. Insert data 2. Update a record. 3. Delete a record 4. Exit Enter your choice (1,2,3,4):3Enter the book number of the record to be deleted: 2 Record deleted.

- 1. Insert data
- 2. Update a record.
- 3. Delete a record
- 4. Exit

Enter your choice (1,2,3,4):4

>>>

Effects on database bookshop:

Table created:

```
mysql> show tables;
 Tables_in_bookshop
 book
1 row in set (0.00 sec)
mysql> desc book;
 Field
                         | Null | Key | Default | Extra
           Type
 bookno
            int(11)
                           YES
                                        NULL
 bookname
             varchar(20)
                           YES
                                        NULL
 price
             float
                           YES
                                        NULL
 author
            varchar(20)
                           YES
                                        NULL
 publisher | varchar(20)
                           YES
                                        NULL
 rows in set (0.01 sec)
```

### 2 Records inserted:

### 1<sup>st</sup> record updated:

### 2<sup>nd</sup> record deleted:

```
mysql> select * from book;

+-----+
| bookno | bookname | price | author | publisher |

+-----+
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