

ASSIGNMENT-4 OF DATABASE MANAGEMENT SYSTEM BY- RISHIK CHAUDHARY

Q.1--> Retrieve names of students enrolled in any society

```
import mysql.connector as c
con=c.connect(host="localhost",user="root",passwd="tiger",database="RISHIK")
cursor=con.cursor()

query='''SELECT STUDENT_NAME FROM STUDENT
WHERE EXISTS (SELECT* FROM ENROLLMENT
WHERE STUDENT.RollNo=ENROLLMENT.RollNo)'''

cursor.execute(query)
rows=cursor.fetchall()
for row in rows:
    print(row)
con.close()
```

OUTPUT->

```
PS C:\Users\sapna\OneDrive\Desktop\MYSQL COLLEGE WORK> python -u "c
('RISHIK CHAUDHARY',)
('MILES MORALES',)
('BHAVYA CHAUDHARY',)
('TANISHKA BHALLA',)
('YASHIKA BHALLA',)
('ADHIRAJ SINGH',)
('KAMAL PREET SINGH',)
PS C:\Users\sapna\OneDrive\Desktop\MYSQL COLLEGE WORK>
```

Q.2--> Retrieve all society names

```
import mysql.connector as c
con=c.connect(host="localhost",user="root",passwd="tiger",database="RISHIK")

cursor=con.cursor()

query="SELECT SocName FROM SOCIETY"
cursor.execute(query)
rows=cursor.fetchall()
for row in rows:
    print(row)
con.close()
```

OUTPUT->

```
PS C:\Users\sapna\OneDrive\Desktop\MYSQL COLLEGE WORK> python -u "c:\Users\sapna\OneDrive\Desktop\MYSQL COLLEGE WORK\ASSIGNMENT-4\tempCodeRunnerFile.py"
('DHWANI',)
('DHUN',)
('NSS',)
('ENACTUS',)
('TURING',)
('BOOK WITH UVA',)
('SASHAKT',)
PS C:\Users\sapna\OneDrive\Desktop\MYSQL COLLEGE WORK>
```

Q.3-->Retrieve students' names starting with letter 'A'

```
import mysql.connector as c
con=c.connect(host="localhost",user="root",passwd="tiger",database="RISHIK")

cursor=con.cursor()

query="SELECT STUDENT_NAME FROM STUDENT WHERE STUDENT_NAME LIKE 'A%'"
cursor.execute(query)
rows=cursor.fetchall()
for row in rows:
    print(row)

con.close()
```

OUTPUT->

```
PS C:\Users\sapna\OneDrive\Desktop\WVSQL COLLEGE WORK> python -u "c:\Users\sapna\OneDrive\Desktop\WVSQL COLLEGE WORK\ASSIGNMENT-4\tempCodeRunnerFile.e.py"
('AJAY NAGAR',)
('ADHIRAJ SINGH',)
PS C:\Users\sapna\OneDrive\Desktop\WVSQL COLLEGE WORK>
```

Activate Windows
Go to Settings to activate Windows.

Q.4-->Retrieve students' details studying in courses 'computer science' or 'chemistry'

```
import mysql.connector as c

con=c.connect(host="localhost",user="root",passwd="tiger",database="RISHIK")
cursor=con.cursor()
query="SELECT * FROM STUDENT WHERE COURSE IN('CS(HONS) ','CHEM(HONS) ')"
cursor.execute(query)

rows=cursor.fetchall()
for row in rows:
    print(row)

con.close()
```

OUTPUT->

```
PS C:\Users\sapna\OneDrive\Desktop\MYSQL COLLEGE WORK> python e.py
('RISHIK CHAUDHARY',)
('MILES MORALES',)
('AJAY NAGAR',)
('BHAVYA CHAUDHARY',)
('GAURAV TANDON',)
('TANISHKA BHALLA',)
('YASHIKA BHALLA',)
PS C:\Users\sapna\OneDrive\Desktop\MYSQL COLLEGE WORK>
```

Q.5-->. Retrieve students' names whose roll no either starts with 1

```
import mysql.connector as c
con=c.connect(host="localhost",user="root",passwd="tiger",database="RISHIK")
cursor=con.cursor()
query="SELECT STUDENT_NAME FROM STUDENT WHERE ROLLNO LIKE '1%'"
cursor.execute(query)
rows=cursor.fetchall()
for row in rows:
    print(row)

con.close()
```

OUTPUT->

```
PS C:\Users\sapna\OneDrive\Desktop\MYSQL COLLEGE WORK> python -u "c:\Users\sapna\OneDrive\Desktop\MYSQL
e.py"
('1240', 'RISHIK CHAUDHARY', 'CS(HONS)', datetime.date(2004, 4, 6), '9999999999')
('1260', 'MILES MORALES', 'CS(HONS)', datetime.date(2004, 3, 6), '9999999999')
('1524', 'AJAY NAGAR', 'CHEM(HONS)', datetime.date(2003, 12, 25), '9999999999')
('1815', 'TANISHKA BHALLA', 'CHEM(HONS)', datetime.date(2004, 7, 18), '9999999999')
PS C:\Users\sapna\OneDrive\Desktop\MYSQL COLLEGE WORK>
```

Q.2→ DO THE FOLLOWING DATABASE ADMINISTRATOR COMMANDS => CREATE USER,CREATE ROLE,GRANT PRIVILEGES TO A ROLE,REVOKE PRIVILEGES FROM A ROLE,CREATE INDEX.

```
mysql> select user,host from mysql.user
-> ;
+-----+-----+
| user          | host          |
+-----+-----+
| read_update   | %             |
| mysql.infoschema | localhost    |
| mysql.session  | localhost    |
| mysql.sys      | localhost    |
| rishik        | localhost    |
| root          | localhost    |
+-----+-----+
6 rows in set (0.00 sec)

mysql> create user if not exists 'rishik1'@'localhost' identified by 'tiger_1234';
Query OK, 0 rows affected (0.10 sec)
```

```
mysql> CREATE ROLE 'READ_UPDATE';
Query OK, 0 rows affected (0.18 sec)

mysql> DROP ROLE 'READ_UPDATE';
Query OK, 0 rows affected (0.38 sec)
```

```
mysql> SELECT CURRENT_USER();
+-----+
| CURRENT_USER() |
+-----+
| root@localhost |
+-----+
1 row in set (0.00 sec)

mysql> SHOW GRANTS FOR 'rishik'@'localhost';
+-----+
| Grants for rishik@localhost |
+-----+
| GRANT USAGE ON *.* TO 'rishik'@'localhost' |
| GRANT 'read_update'@'%' TO 'rishik'@'localhost' |
+-----+
2 rows in set (0.07 sec)

mysql> REVOKE 'READ_UPDATE' FROM 'rishik'@'localhost';
ERROR 3523 (HY000): Unknown authorization ID 'READ_UPDATE'@'%'
mysql> REVOKE 'read_update' FROM 'rishik'@'localhost';
Query OK, 0 rows affected (0.13 sec)
```

```
mysql> CREATE INDEX INDX ON EMPNAME;  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right  
syntax to use near '' at line 1  
mysql> CREATE INDEX INDX ON EMPLOYEE(EMPNAME);  
Query OK, 0 rows affected (3.00 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> SHOW INDX FROM EMPLOYEE;  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right  
syntax to use near 'INDX FROM EMPLOYEE' at line 1  
mysql> SHOW INDEX FROM EMPLOYEE;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment
employee	1	INDX	1	EMPNAME	A	5			NULL	BTREE	
	YES	NULL									

1 row in set (0.31 sec)

```
mysql> DROP INDEX INDX ON EMPLOYEE;  
Query OK, 0 rows affected (0.26 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

Activate Windows
Go to Settings to activate Windows.