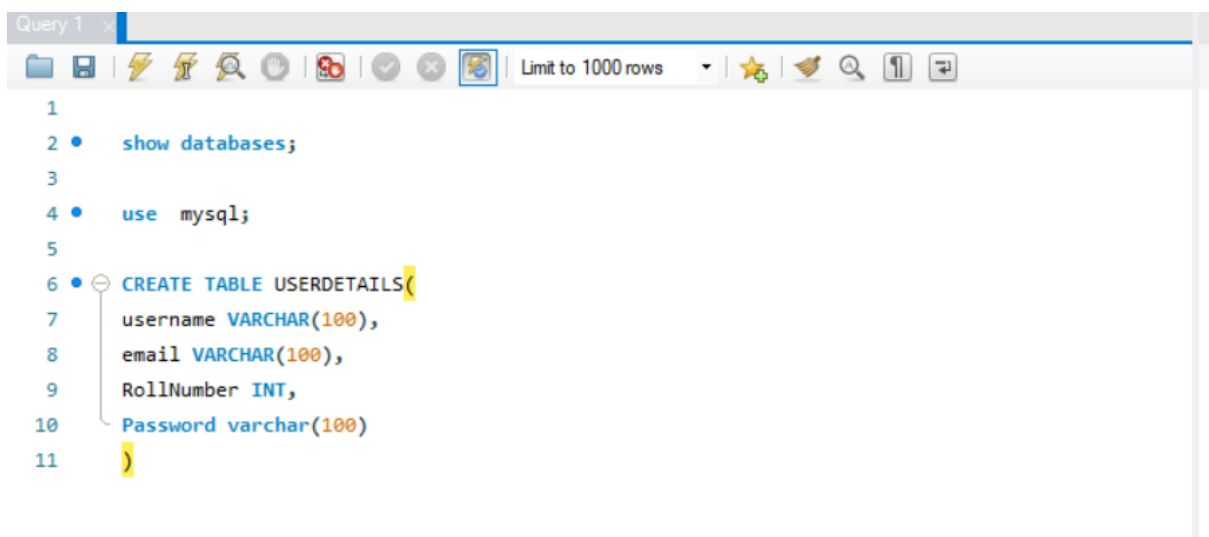


## ASSIGNMENT -2:

Name	Aswin kumarappa
Roll No	913119205007
ASSIGNMENT DATE	21.09.22

1. Create User table with user with email,username,roll number, password.



```
Query 1
1
2 • show databases;
3
4 • use mysql;
5
6 • CREATE TABLE USERDETAILS(
7   username VARCHAR(100),
8   email VARCHAR(100),
9   RollNumber INT,
10  Password varchar(100)
11 )
```

Query 1 x

Limit to 1000 rows

```

13
14 • INSERT INTO USERDETAILS VALUES("Aswin","aswinmac.09@gmail.com",19,"aswin231");
15 • INSERT INTO USERDETAILS VALUES("ROhith","arohith.09@gmail.com",20,"rohith231");
16 • INSERT INTO USERDETAILS VALUES("partha","partha.09@gmail.com",21,"partha231");
17 • INSERT INTO USERDETAILS VALUES("ramvishal","ramvishal.09@gmail.com",22,"ramvishal231");
18
19 • SELECT * FROM USERDETAILS;
20

```

Result Grid

username	email	RollNumber	Password
Aswin	aswinmac.09@gmail.com	19	aswin231
ROhith	arohith.09@gmail.com	20	rohith231
partha	partha.09@gmail.com	21	partha231
ramvishal	ramvishal.09@gmail.com	22	ramvishal231
NULL	NULL	NULL	NULL

Result Grid  
Form Editor  
Field Types

## 2. Perform UPDATE,DELETE Queries with user table

```

19 • SELECT * FROM USERDETAILS;
20
21 • UPDATE USERDETAILS SET email="rohith.09@gmail.com" WHERE RollNumber=20 ;
22
23

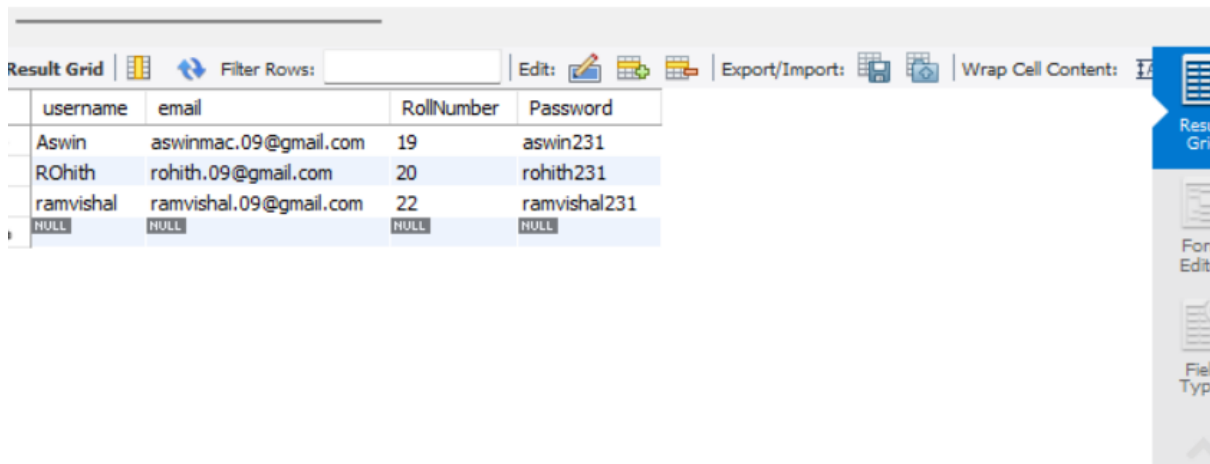
```

Result Grid

username	email	RollNumber	Password
Aswin	aswinmac.09@gmail.com	19	aswin231
ROhith	rohith.09@gmail.com	20	rohith231
partha	partha.09@gmail.com	21	partha231
ramvishal	ramvishal.09@gmail.com	22	ramvishal231
NULL	NULL	NULL	NULL

Result Grid  
Form Editor  
Field Types

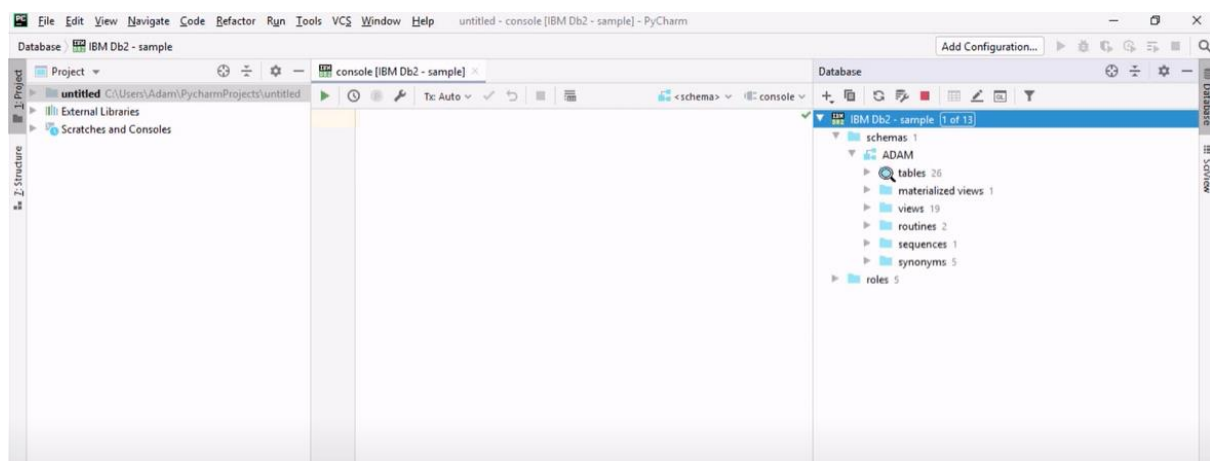
```
23 • DELETE FROM USERDETAILS WHERE RollNumber=21;  
24
```



The screenshot shows a database management interface with a 'Result Grid' tab. The grid contains four columns: 'username', 'email', 'RollNumber', and 'Password'. There are four rows of data. The first row has 'Aswin', 'aswinmac.09@gmail.com', '19', and 'aswin231'. The second row has 'ROhith', 'rohith.09@gmail.com', '20', and 'rohith231'. The third row has 'ramvishal', 'ramvishal.09@gmail.com', '22', and 'ramvishal231'. The fourth row has 'NULL', 'NULL', 'NULL', and 'NULL'. The interface includes a toolbar with options like 'Filter Rows', 'Edit', 'Export/Import', and 'Wrap Cell Content'.

username	email	RollNumber	Password
Aswin	aswinmac.09@gmail.com	19	aswin231
ROhith	rohith.09@gmail.com	20	rohith231
ramvishal	ramvishal.09@gmail.com	22	ramvishal231
NULL	NULL	NULL	NULL

### 3. Connect python code to db2



4. Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page

## app.py:

```
from flask import Flask, render_template, request, redirect, url_for, session

from flask_mysqlldb import MySQL

import MySQLdb.cursors

import re

app = Flask(__name__)

app.config['MYSQL_HOST'] = 'localhost'

app.config['MYSQL_USER'] = 'root'

app.config['MYSQL_PASSWORD'] = 'aswin321'

app.config['MYSQL_DB'] = 'login'

mysql = MySQL(app)

@app.route('/')

@app.route('/login', methods = ['GET', 'POST'])

def login():

    msg = ""

    if request.method == 'POST' and 'username' in request.form and 'password' in request.form:

        username = request.form['username']

        password = request.form['password']

        cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)

        cursor.execute('SELECT * FROM accounts WHERE username = % s AND password = % s', (username, password, ))

        account = cursor.fetchone()

        if account:

            session['loggedin'] = True

            session['id'] = account['id']

            session['username'] = account['username']

            msg = 'Logged in successfully !'

            return render_template('index.html', msg = msg)

        else:
```

```
        msg = 'Incorrect username / password !'
    return render_template('login.html', msg = msg)
```

```
@app.route('/logout')
```

```
def logout():
```

```
    session.pop('logged_in', None)
    session.pop('id', None)
    session.pop('username', None)
    return redirect(url_for('login'))
```

```
@app.route('/register', methods = ['GET', 'POST'])
```

```
def register():
```

```
    msg = ""

    if request.method == 'POST' and 'username' in request.form and 'password' in
request.form and 'email' in request.form :

        username = request.form['username']
        password = request.form['password']
        email = request.form['email']

        cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
        cursor.execute('SELECT * FROM accounts WHERE username = % s',
(username, ))

        account = cursor.fetchone()

        if account:
            msg = 'Account already exists !'

        elif not re.match(r'^(^@)+@(^@)+\.(^@)+', email):
            msg = 'Invalid email address !'

        elif not re.match(r'[A-Za-z0-9]+', username):
            msg = 'Username must contain only characters and numbers !'

        elif not username or not password or not email:
            msg = 'Please fill out the form !'
```

```

        else:

            cursor.execute('INSERT INTO accounts VALUES (NULL, % s, % s, % s)',
(username, password, email, ))

            mysql.connection.commit()

            msg = 'You have successfully registered !'

elif request.method == 'POST':

    msg = 'Please fill out the form !'

return render_template('register.html', msg = msg)

```

## LOGIN.HTML:

```

<html>

    <head>

        <meta charset="UTF-8">

        <title> Login </title>

        <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">

    </head>

    <body></br></br></br></br></br>

        <div align="center">

            <div align="center" class="border">

                <div class="header">

                    <h1 class="word">Login</h1>

                </div></br></br></br></br>

                <h2 class="word">

                    <form action="{{ url_for('login') }}" method="post">

                        <div class="msg">{{ msg }}</div>

```

```

        <input id="username" name="username" type="text"
placeholder="Enter Your Username" class="textbox"/></br></br>

        <input id="password" name="password"
type="password" placeholder="Enter Your Password" class="textbox"/></br></br></br>

        <input type="submit" class="btn" value="Sign
In"></br></br>

    </form>

</h2>

    <p class="bottom">Don't have an account? <a class="bottom"
href="{{url_for('register')}}"> Sign Up here</a></p>

</div>

</div>

</body>

</html>

```

### REGISTER.HTML:

```

<html>

    <head>

        <meta charset="UTF-8">

        <title> Register </title>

        <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">

    </head>

    <body></br></br></br></br></br>

        <div align="center">

            <div align="center" class="border">

                <div class="header">

                    <h1 class="word">Register</h1>

                </div></br></br></br></br>

```

```

<h2 class="word">

    <form action="{{ url_for('register') }}" method="post">

        <div class="msg">{{ msg }}</div>

            <input id="username" name="username" type="text"
placeholder="Enter Your Username" class="textbox"/></br></br>

            <input id="password" name="password"
type="password" placeholder="Enter Your Password" class="textbox"/></br></br>

            <input id="email" name="email" type="text"
placeholder="Enter Your Email ID" class="textbox"/></br></br>

            <input type="submit" class="btn" value="Sign
Up"></br>

        </form>

    </h2>

    <p class="bottom">Already have an account? <a class="bottom"
href="{{url_for('login')}}"> Sign In here</a></p>

    </div>

    </div>

</body>

</html>

```

## LOGOUT.HTML

```

<html>

    <head>

        <meta charset="UTF-8">

        <title> Index </title>

        <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">

    </head>

    <body></br></br></br></br></br>

        <div align="center">

            <div align="center" class="border">

```



```
<div class="header">
    <h1 class="word">Index</h1>
</div></br></br></br>
    <h1 class="bottom">
        Hi {{session.username}}!!</br></br> Welcome to the
index page...
    </h1></br></br></br>
    <a href="{{ url_for('logout') }}" class="btn">Logout</a>
</div>
</div>
</body>
</html>
```

OUTPUT:

## *Login*

*Enter Your Username*

*Enter Your Password*

*Sign In*

*Don't have an account? [Sign Up here](#)*

## *Register*

*Enter Your Username*

*Enter Your Password*

*Enter Your Email ID*

*Sign Up*

*Already have an account? [Sign In here](#)*

*Index*

*Hi user!!*

*Welcome to the index page...*

*Logout*