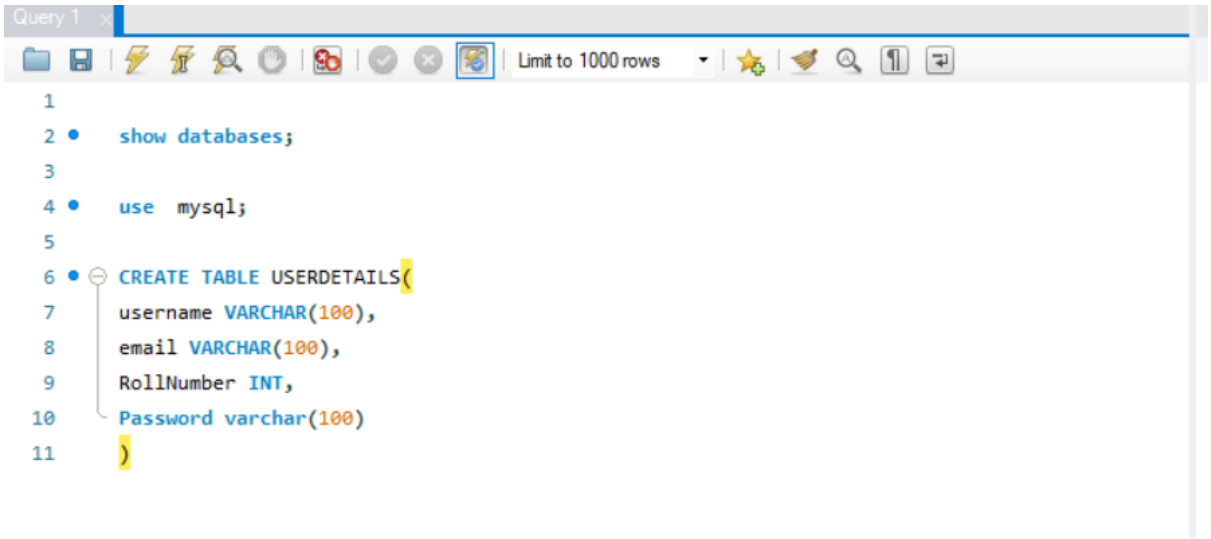
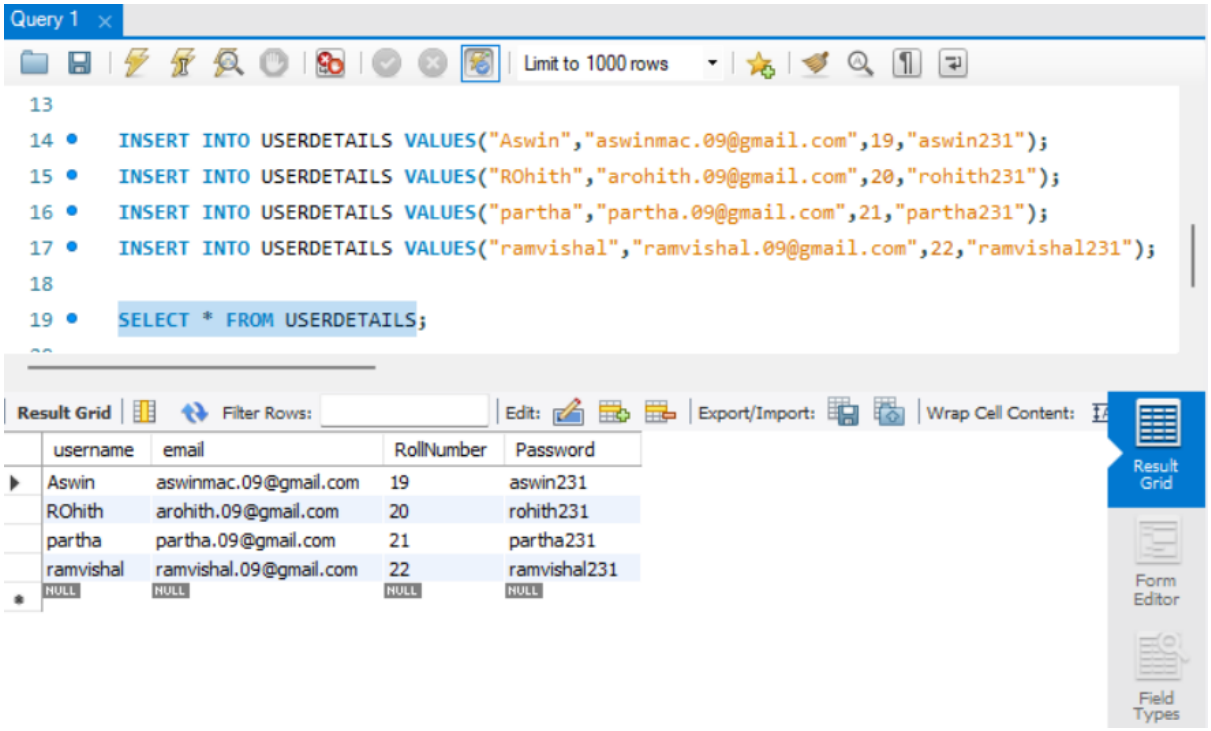
ASSIGNMENT -2:

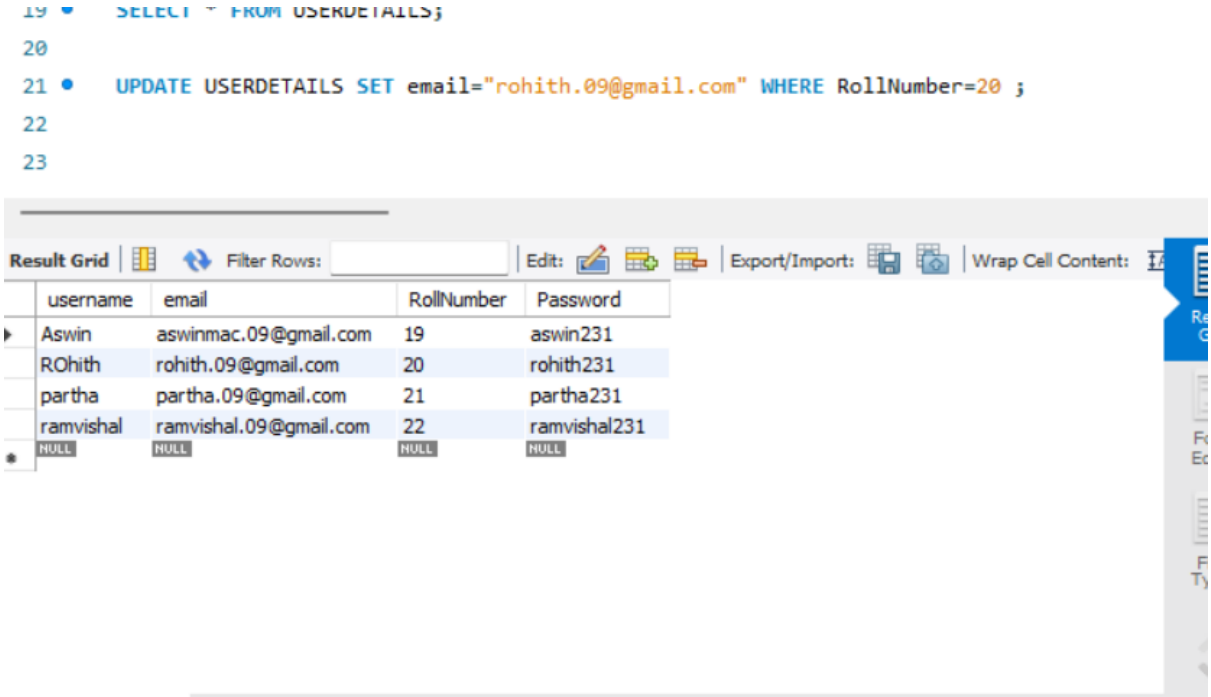
Name	Aswin kumarappa
Roll No	913119205007
ASSIGNMENT DATE	21.09.22

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





2. Perform UPDATE,DELETE Queries with user table

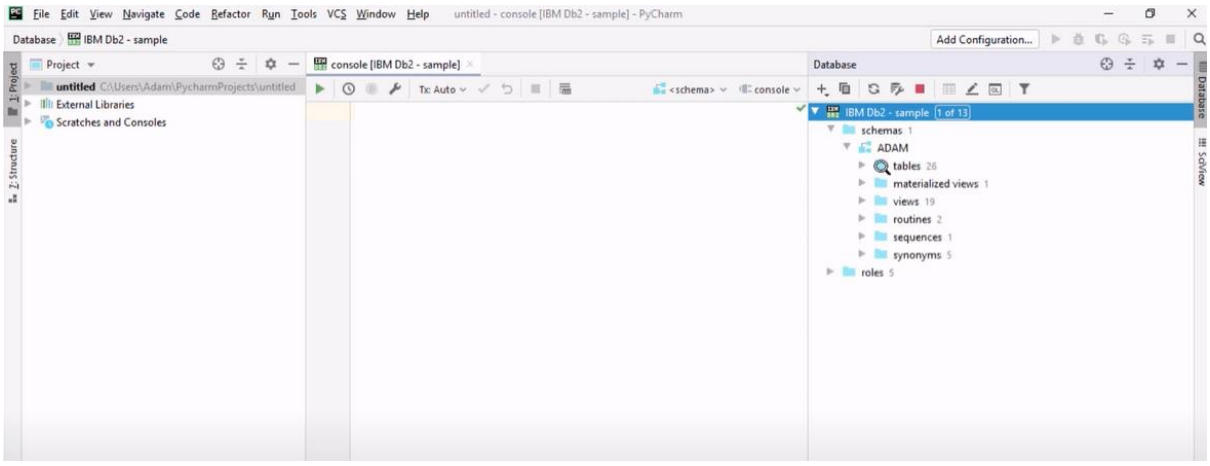


```
23 •    DELETE FROM USERDETAILS WHERE RollNumber=21;
24
```

Result Grid | Filter Rows: | Edit: | Export/Import: | 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_mysqldb 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('loggedin', 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>
            <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>
```

```
                    <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>
```

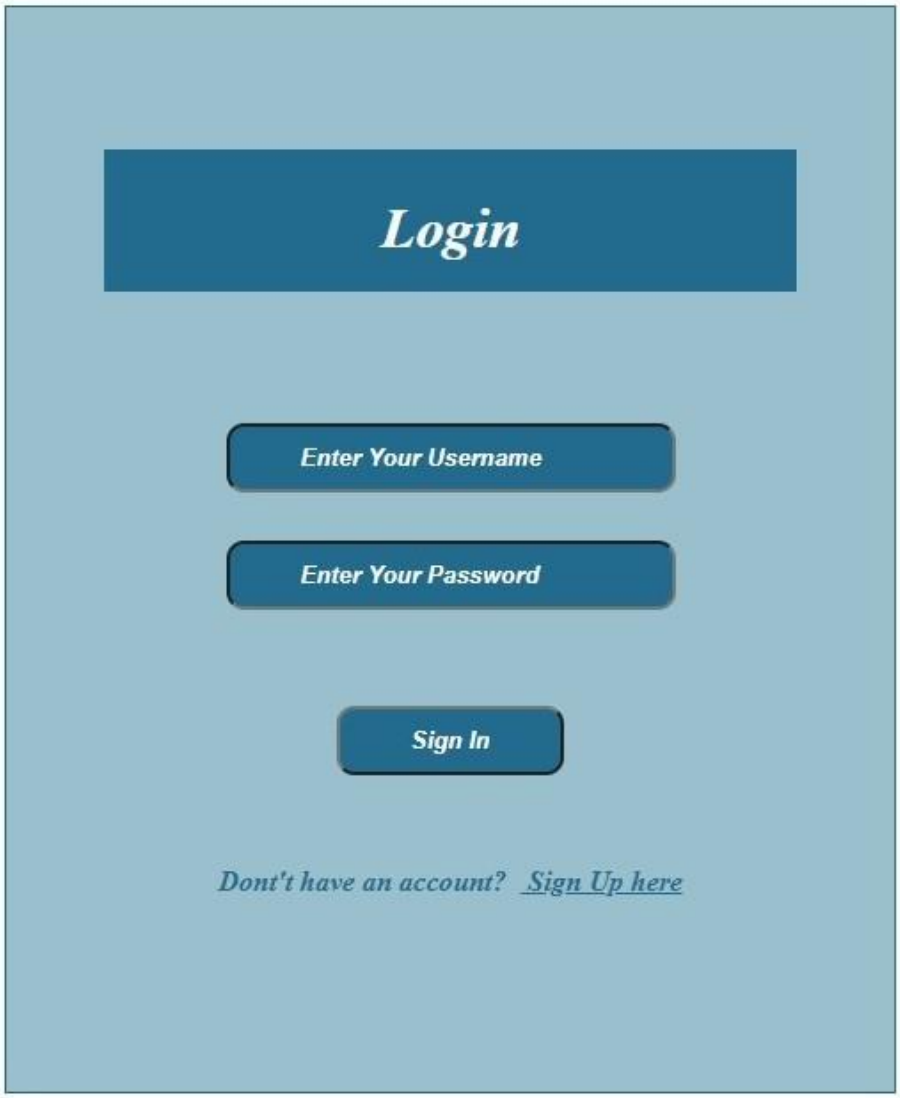
LOGOUT.HTML

```
<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
Dont'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