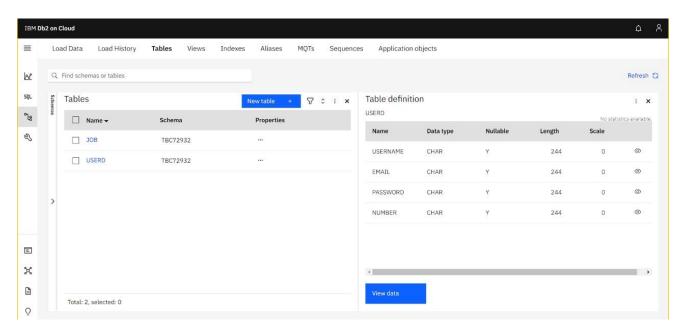
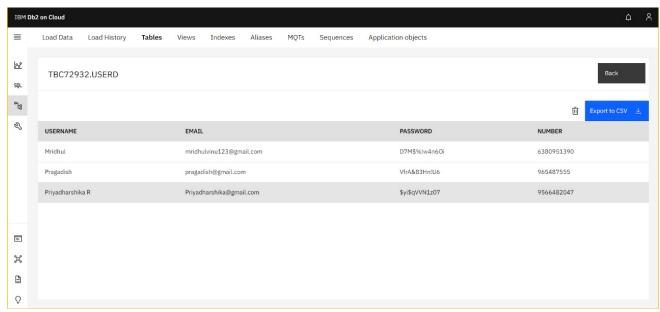
Assignment -2 IBM CLOUD DB2

Assignment Date	26 OCTOBER 2022
Student Name	PRIYADHARSHIKA R
Student Roll Number	713319CS112
Maximum Marks	2 Marks

Questions:

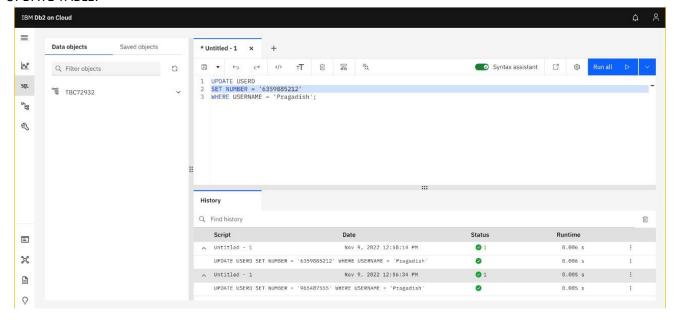
1. Create User table with user with email, username, password.

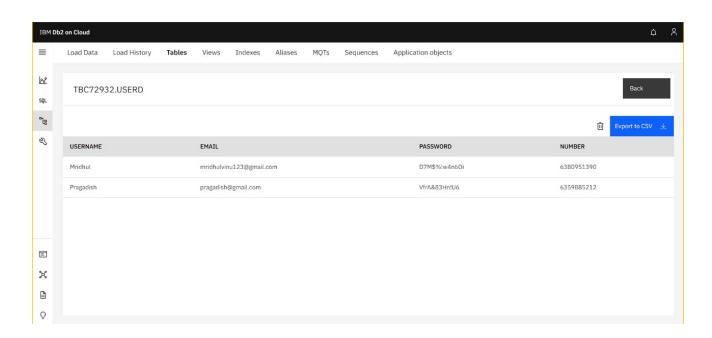




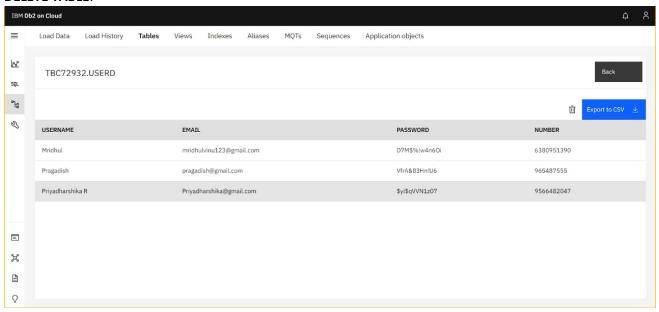
2. Perform UPDATE, DELETE Queries with user table.

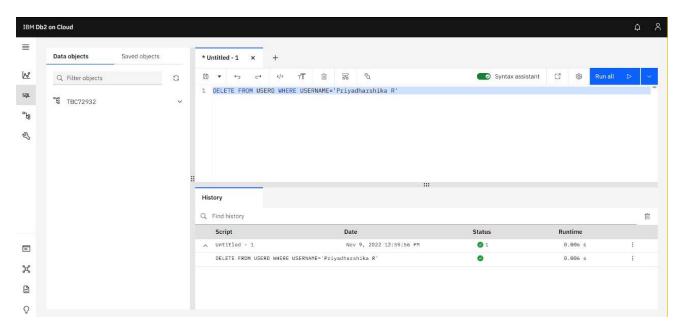
UPDATE TABLE:

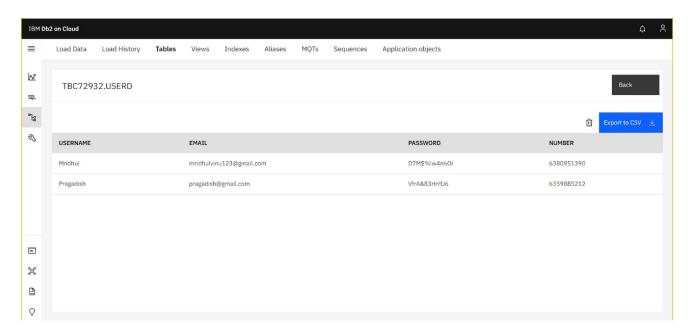




DELETE TABLE:







3. Connect python code to db2.

NOTE:- Question 4 contains Question 3 answer

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

Answers

App.py

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
app = Flask(_name_)
dsn_hostname = "815fa4db-dc03-4c70-869a-
a9cc13f33084.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
dsn\_uid = "tbc72932"
dsn_pwd = "4LioOqzrIBnfCt6c"
dsn_driver = "{IBM DB2 ODBC DRIVER}"
dsn database = "BLUDB"
dsn_port = "30367"
dsn security = "SSL"
dsn = ("DRIVER={0};"
"DATABASE={1};"
"HOSTNAME={2};"
"PORT={3};"
"UID={4};"
"PWD={5};"
"SECURITY={6};").format(dsn_driver,dsn_database,dsn_hostname,dsn_port,dsn_uid,dsn_pw
d,dsn_security)
print(dsn)
try:
  conn = ibm_db.pconnect(dsn,"","")
  print("success")
except:
  print(ibm_db.conn_errormsg())
@app.route("/" , methods=['GET', 'POST'])
def register():
 if request.method == 'POST':
    sql_stmt = "insert into USER values(?,?,?,?)"
    stmt = ibm_db.prepare(conn, sql_stmt)
    username = request.form['username']
    email = request.form['email']
    password = request.form['password']
    number = request.form['number']
    ibm_db.bind_param(stmt, 1, username)
    ibm_db.bind_param(stmt, 2, email)
    ibm_db.bind_param(stmt, 3, password)
    ibm_db.bind_param(stmt, 4, number)
    try:
```

```
ibm_db.execute(stmt)
      return redirect('/')
    except:
      print(ibm_db.stmt_errormsg())
  return render template('index.html')
@app.route("/login", methods=('GET', 'POST'))
def login():
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        query = "select COUNT(*) from user where username='"+username+"' and
password='"+password+"'"
        stmt5 = ibm db.exec immediate(conn,query)
        row = ibm db.fetch tuple(stmt5)
        if(row[0] ==1):
            return redirect("/shop/")
    return render template("index.html")
@app.route("/shop/" , methods=['GET', 'POST'])
def shop():
  sql = "SELECT * FROM job"
  job name = []
  job_location = []
  job_role = []
  job_number = []
  job_salary = []
  job_image = []
  stmt = ibm_db.exec_immediate(conn, sql)
  dictionary = ibm_db.fetch_assoc(stmt)
  while dictionary != False:
    job_name.append(dictionary["NAME"])
    job_location.append(dictionary["LOCATION"])
    job_role.append(dictionary["ROLE"])
    job_number.append(dictionary["NUMBER"])
    job_salary.append(dictionary["SALARY"])
    job_image.append(dictionary["IMAGE"])
    dictionary = ibm_db.fetch_assoc(stmt)
  return render_template('shop.html', len = len(job_name), job_name = job_name,
job_location = job_location, job_role = job_role, job_number = job_number,
job_salary = job_salary, job_image = job_image)
if _name_ == "_main_":
    app.run(debug=True, host='0.0.0.0')
```

Index.html

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Register</title>
    <!-- bootstrap css cdn -->
    <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="style.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"</pre>
rel="stylesheet">
    k
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
<body>
    <!-- bootstrap navbar -->
    <!-- navbar ends -->
    <!-- Login form -->
    <div class="login text-center mt-5">
        <form action="/" method="post">
            <h2 class="form-text-h2"> Register Form </h2>
            <input type="text" class="form-control" name="username"</pre>
placeholder="Enter Your Username" id="username"
                required>
            <input type="email" class="form-control" name="email" placeholder="Enter</pre>
Your Email ID" id="email" required>
            <input type="password" class="form-control" name="password"</pre>
placeholder="Enter Your Password" id="password"
                required>
            <button type="submit" id="button" class="btn btn-primary"> Register
</button>
            <div class="note mt-3 text-center">
                <!--Register form -->
                 already have an account ? please login <a
href="login.html">login</a>
```

login.html

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Smart Fashion Login</title>
    <!-- favicon -->
    <!-- <link rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-
    <!-- <li>k rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
    <link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-</pre>
32x32.png">
    <!-- bootstrap css cdn -->
    <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="style.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"</pre>
rel="stylesheet">
    k
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
<body>
    <div class="login text-center mt-5">
        <form action="/login" method="post">
            <h2 class="form-text-h2"> Login</h2>
            <div class="form-group mb-3">
                <label class="label" for="username">Username
                <input type="text" class="form-control" placeholder="Username"</pre>
name="username" required>
            </div>
            <div class="form-group mb-3">
```

Style.css

```
margin: 0;
    padding: 0;
body {
    background-color: aqua !important;
    display: flex;
   flex-direction: column;
    align-items: center;
    justify-content: center;
form {
   display: flex;
   flex-direction: column;
    align-items: center;
    justify-content: center;
    background-color: white;
   width: 40%;
   height: 450px;
   border-radius: 50px;
   margin: 100px;
    gap: 25px;
h2 {
    font-size: large;
    font-weight: bolder;
```

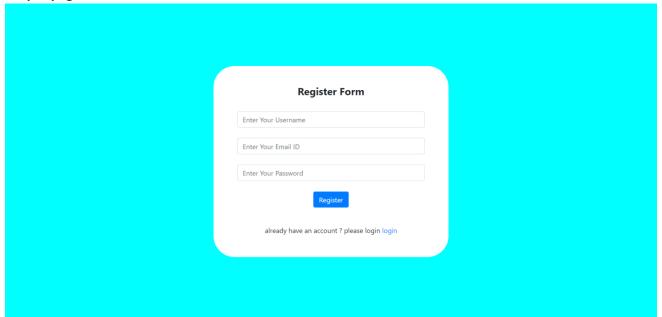
```
input {
    width: 80% !important;
}

div {
    display: flex;
    align-items: center;
    justify-content: center;
    flex-direction: column;
    width: 90%;
}

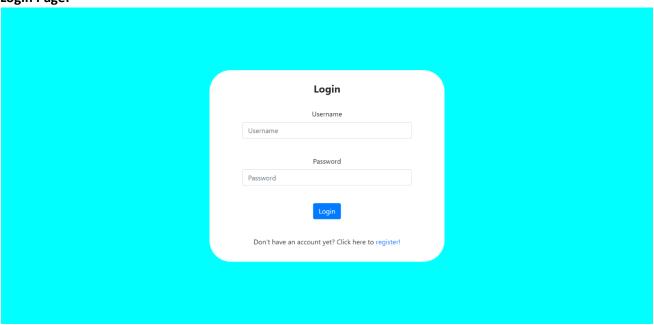
.form-text-vk {
    font-size: small;
    padding-bottom: 10px;
}

.form-text-h2 {
    font-size: x-large;
    padding-top: 10px;
}
```

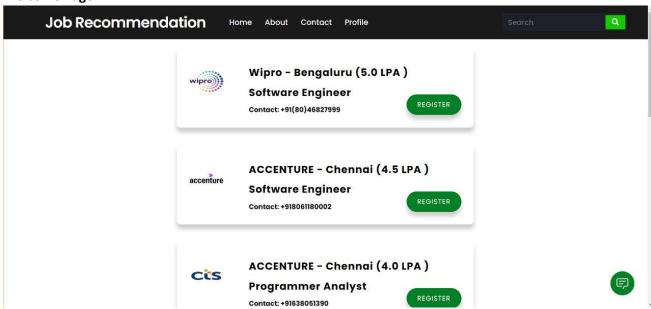
Output page:



Login Page:



Welcome Page:



Data Base Table

