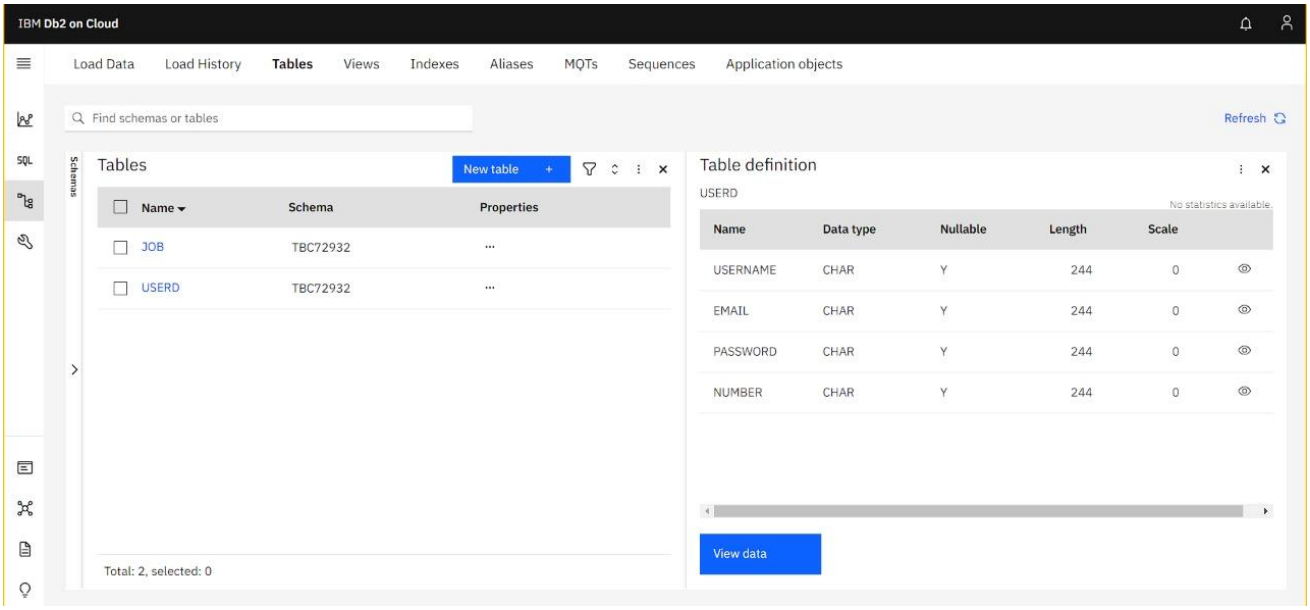
Assignment -2

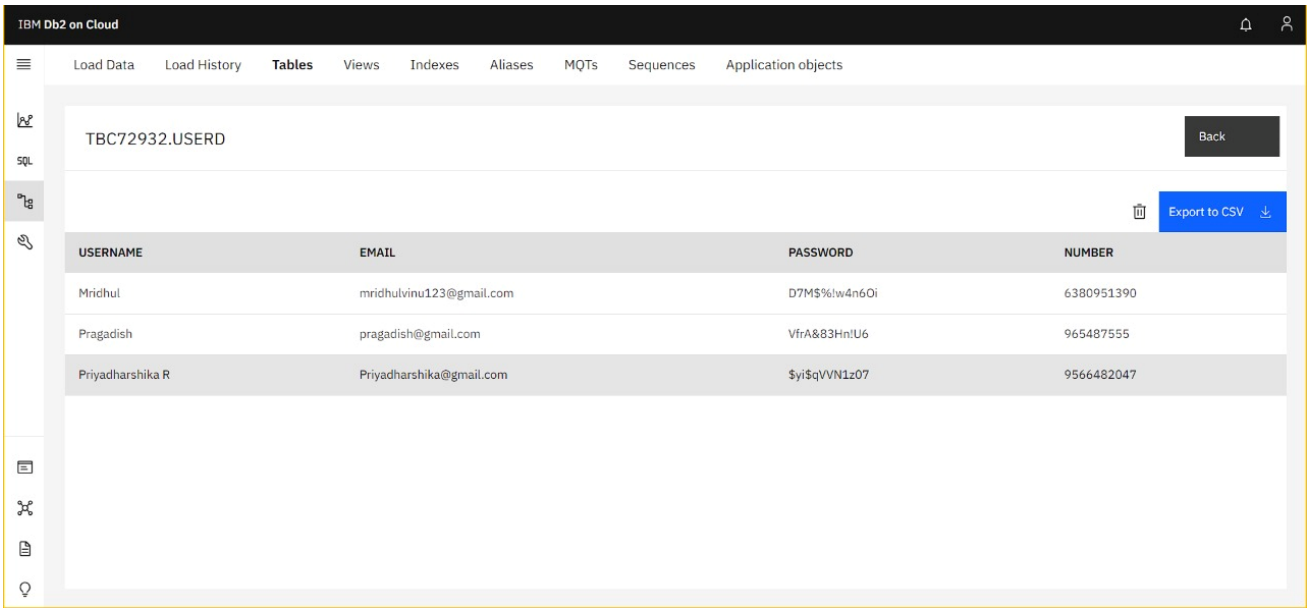
IBM CLOUD DB2

Assignment Date	26 OCTOBER 2022
Student Name	PRAGADISH SA
Student Roll Number	713319CS106
Maximum Marks	2 Marks

Questions:

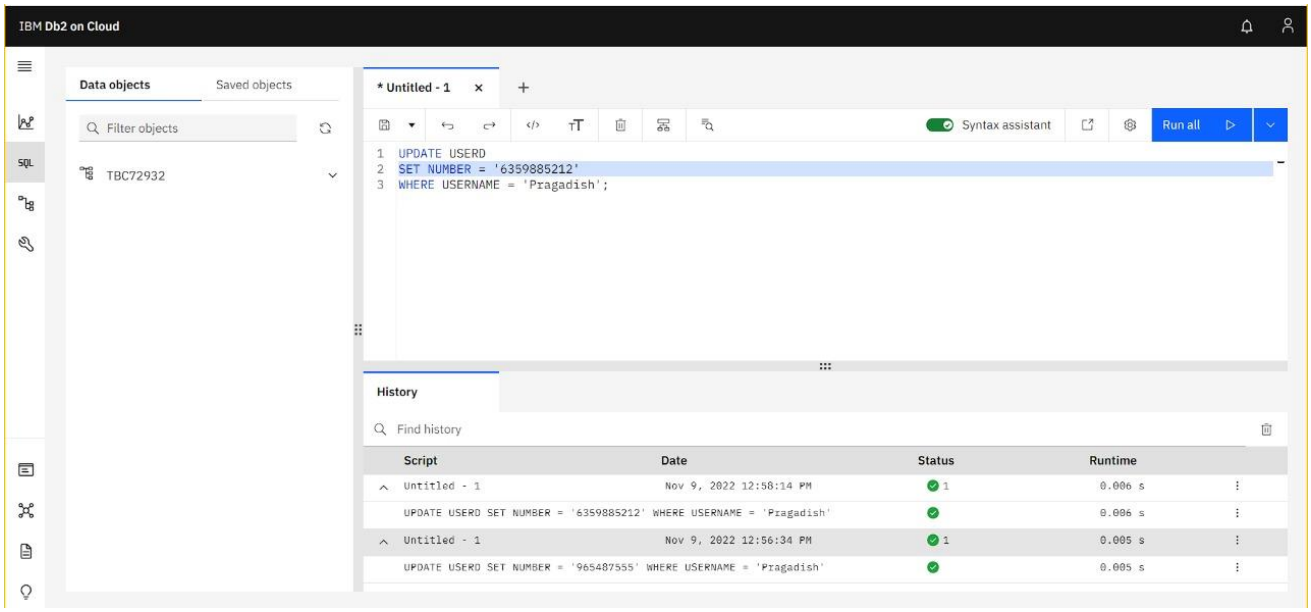
1. Create User table with user with email, username, password.

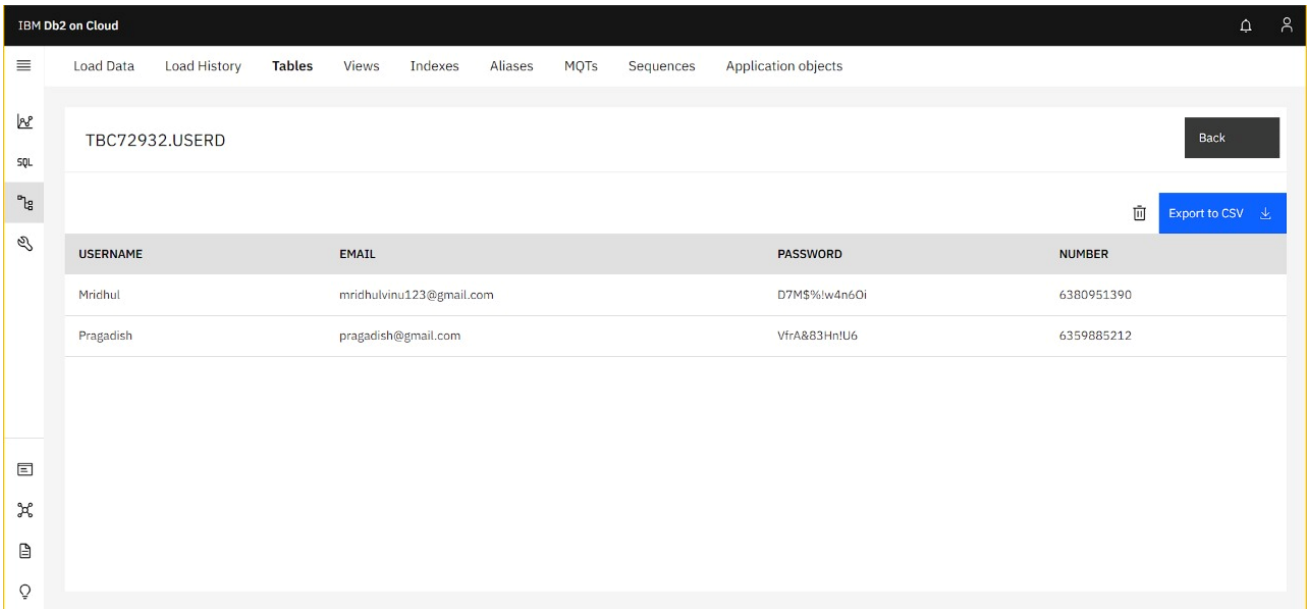




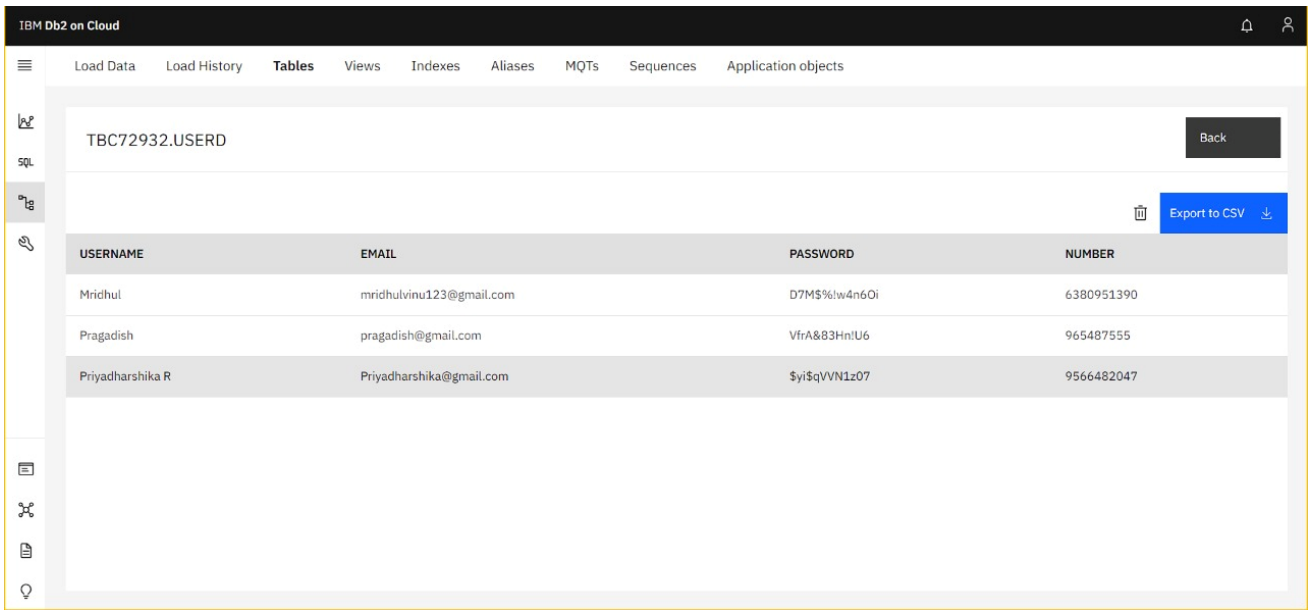
2. Perform UPDATE, DELETE Queries with user table.

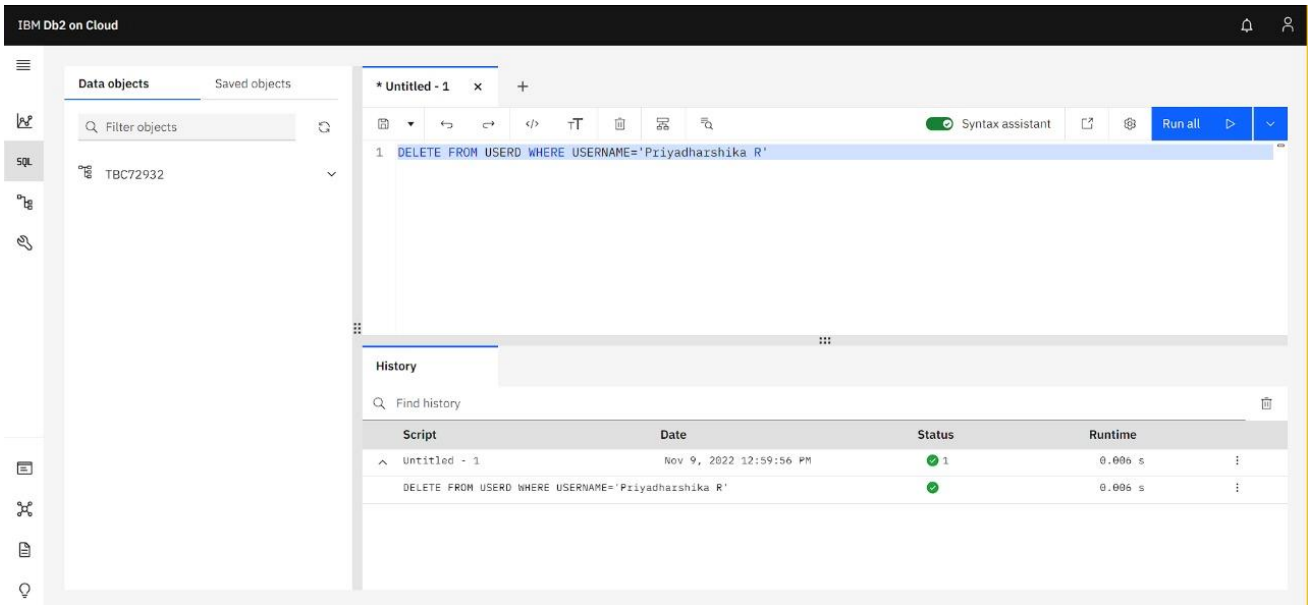
UPDATE TABLE:

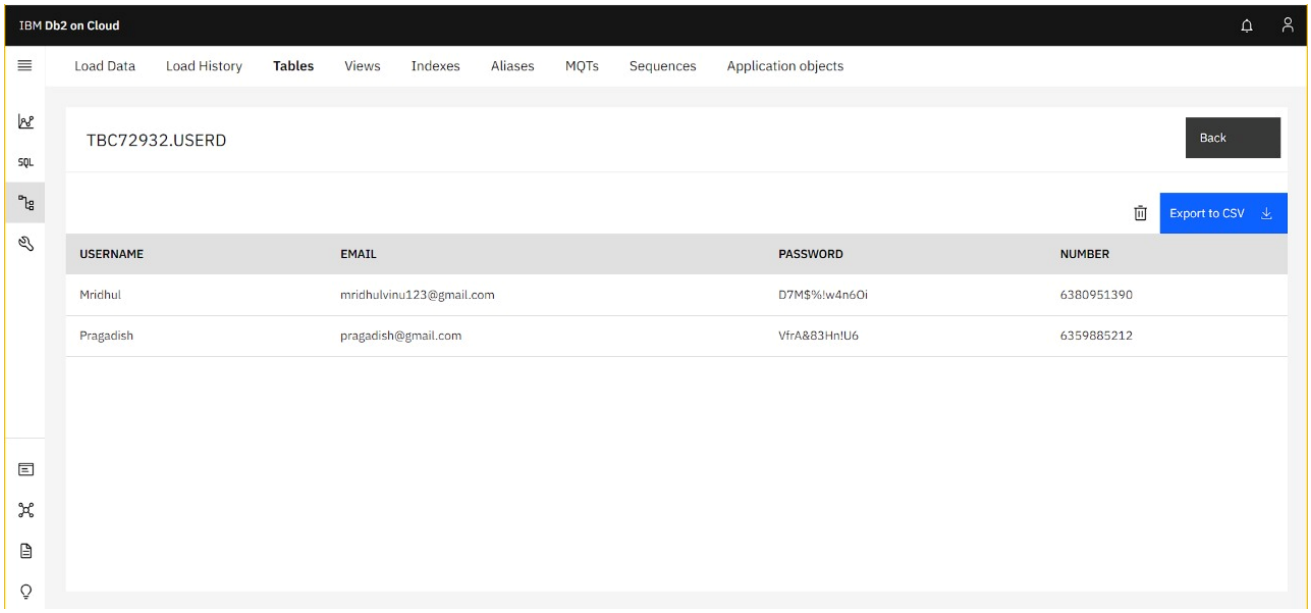




DELETE TABLE:







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">
  <head>
    <title>Sign Up | By Code Info</title>
```

```
    <link rel="stylesheet" href="log.css" />
    <link
      href="https://fonts.googleapis.com/css2?family=Roboto:wght@300&display=swap"
      rel="stylesheet"
    />
  </head>
  <body>
    <div class="signup-box">
      <h1>Sign Up</h1>
      <form>
        <label>First Name</label>
        <input type="text" placeholder="" />
        <label>Last Name</label>
        <input type="text" placeholder="" />
        <label>Email</label>
        <input type="email" placeholder="" />
        <label>Password</label>
        <input type="password" placeholder="" />
        <label>Confirm Password</label>
        <input type="password" placeholder="" />
        <input type="button" value="Submit" />
      <closeform></closeform></form>
      <p>
        By clicking the Sign Up button,you agree to our <br />
        <a href="#">Terms and Condition</a> and <a href="#">Policy Privacy</a>
      </p>
    </div>
    <p class="para-2">
      Already have an account? <a href="signin.html">Login here</a>
    </p>
  </body>
</html>
```

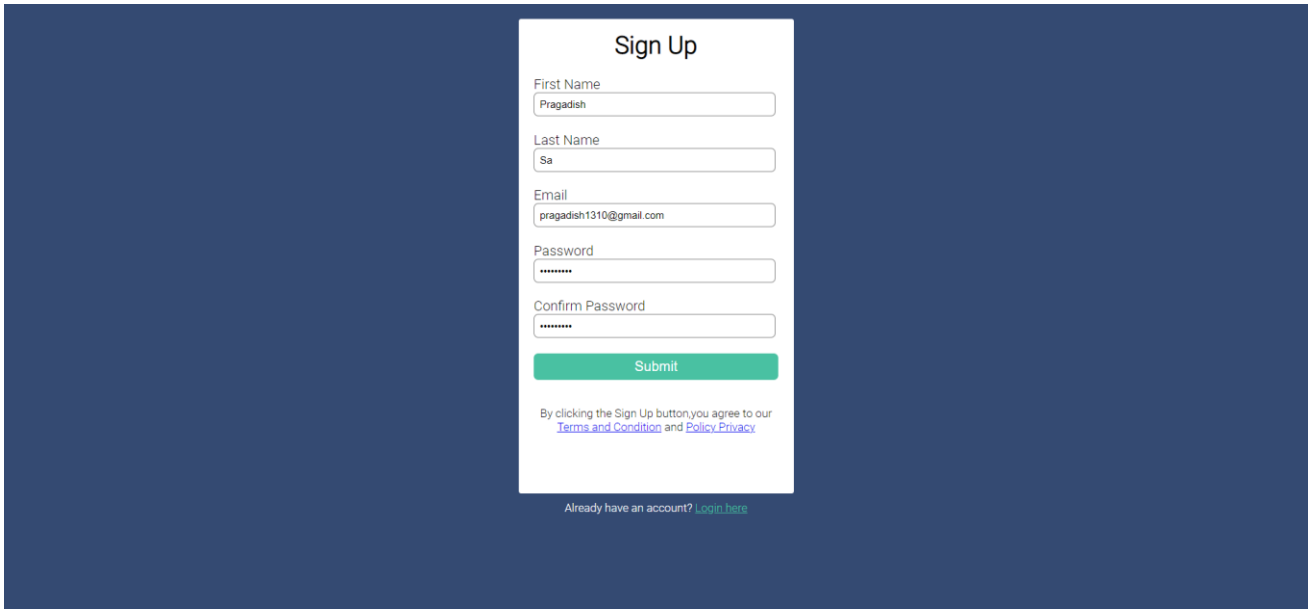
Style.css

```
body {
  background-color: #344a72;
  font-family: "Roboto", sans-serif;
}

.signup-box {
  width: 360px;
  height: 620px;
  margin: auto;
  background-color: white;
  border-radius: 3px;
}

.login-box {
  width: 360px;
```

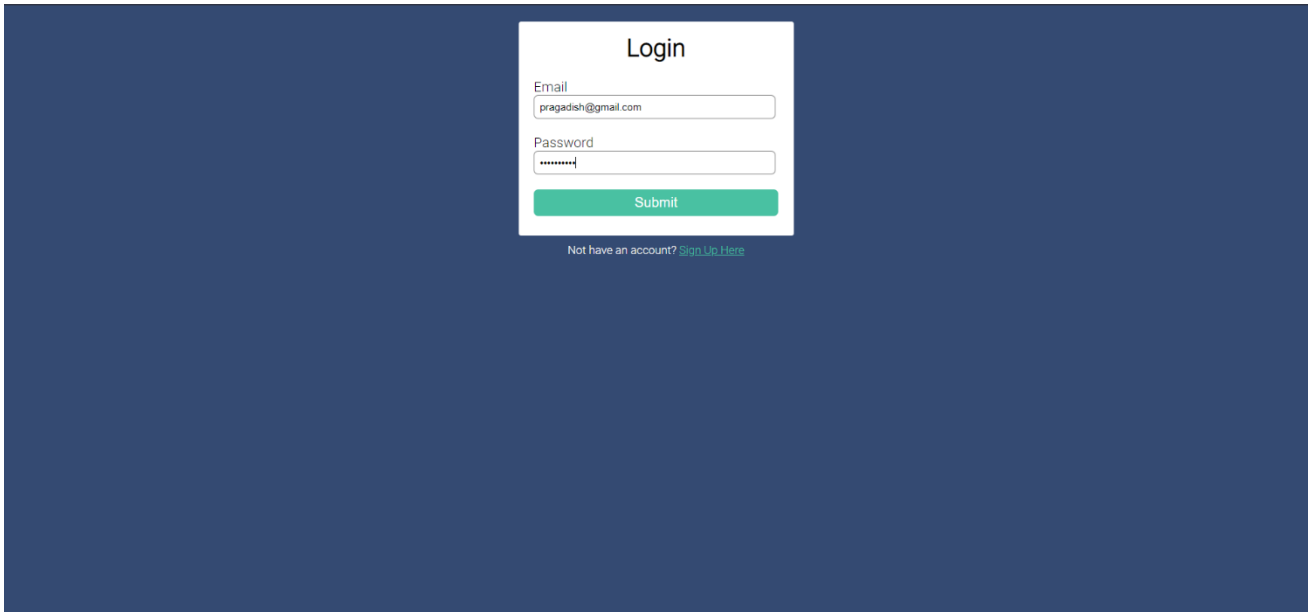
```
  height: 280px;
  margin: auto;
  border-radius: 3px;
  background-color: white;
}

h1 {
  text-align: center;
  padding-top: 15px;
}

h4 {
  text-align: center;
}

form {
  width: 300px;
  margin-left: 20px;
}

form label {
  display: flex;
  margin-top: 20px;
  font-size: 18px;
}

form input {
  width: 100%;
  padding: 7px;
  border: none;
  border: 1px solid gray;
  border-radius: 6px;
  outline: none;
}
input[type="button"] {
  width: 320px;
  height: 35px;
  margin-top: 20px;
  border: none;
  background-color: #49c1a2;
  color: white;
  font-size: 18px;
}
p {
  text-align: center;
  padding-top: 20px;
  font-size: 15px;
}
.para-2 {
  text-align: center;
  color: white;
  font-size: 15px;
```

```
  margin-top: -10px;
}
.para-2 a {
  color: #49c1a2;
}
```

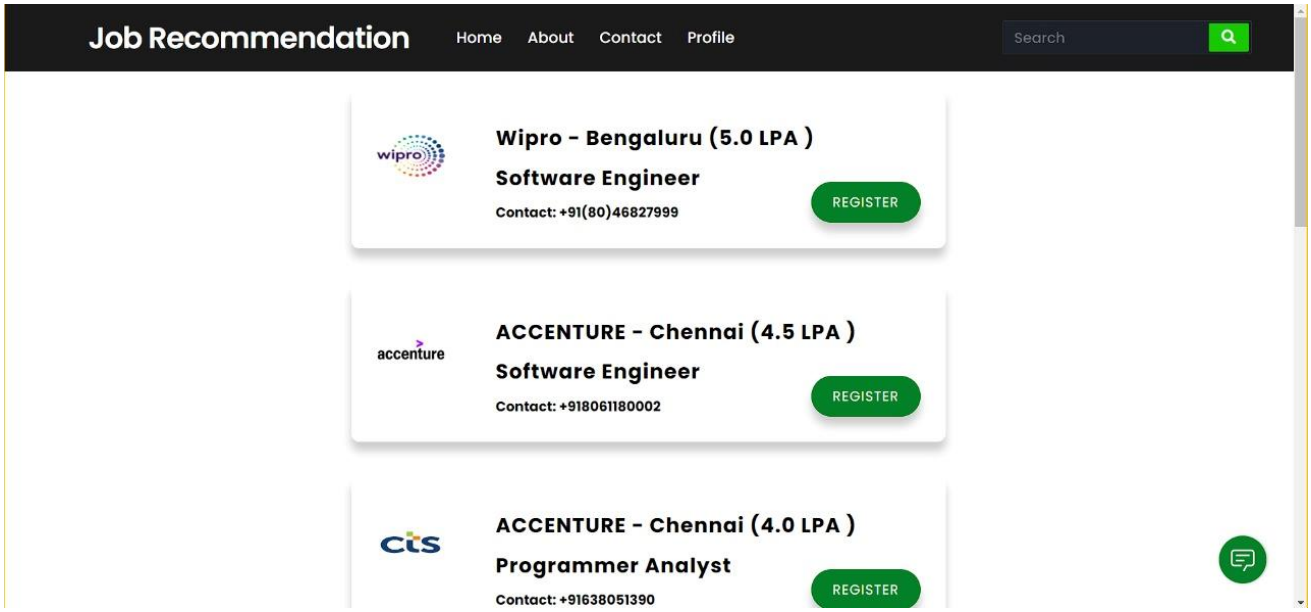
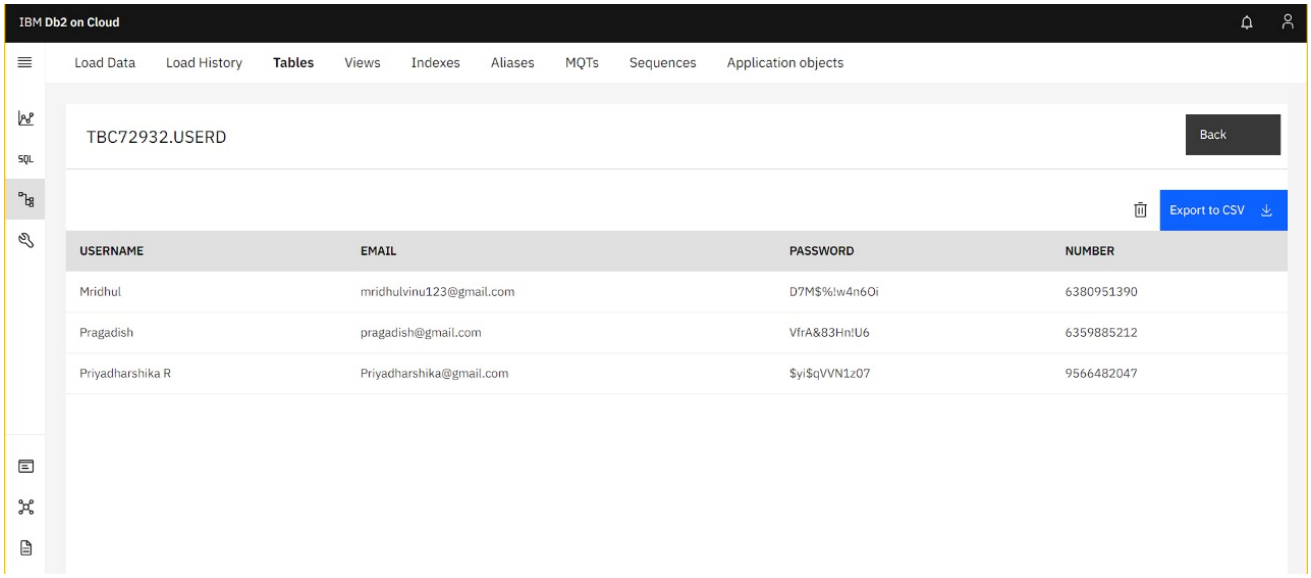
Output page:



Login Page:



Welcome Page:



Data Base Table