

ASSIGNMENT NO 3

NAME : R.RANJITHA

PROJECT : NUTRITION ASSISTANT APPLICATION

PROJECT ID :PNT2022TMID19500

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

INSERT INTO TABLENO6

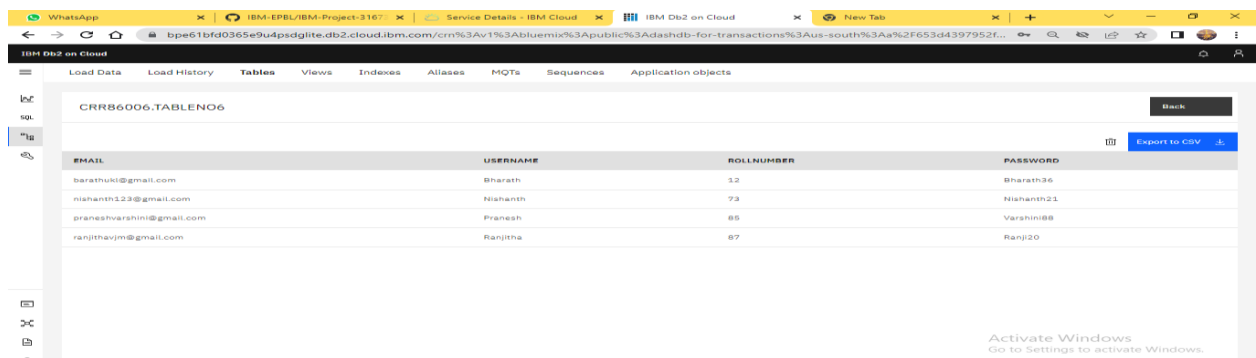
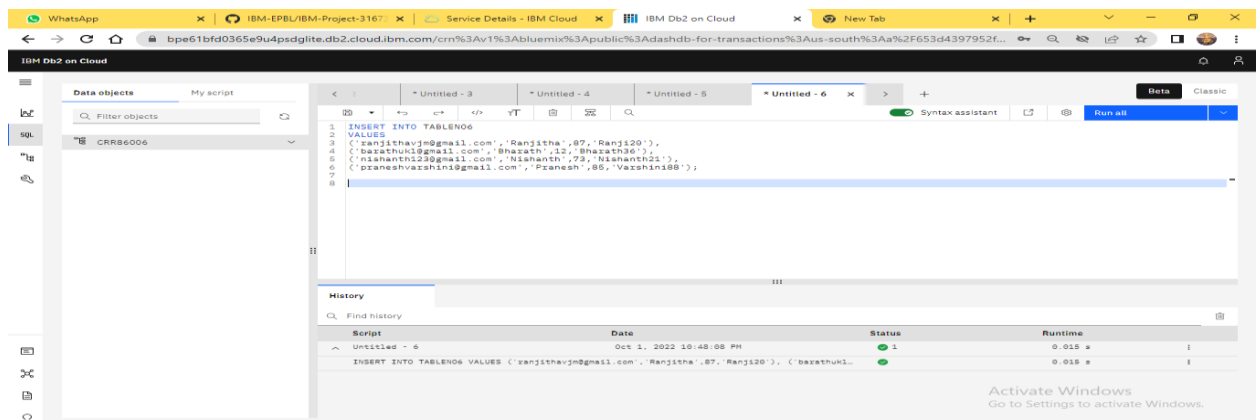
VALUES

('ranjithavjm@gmail.com','Ranjitha',87,'Ranji20'),

('barathukl@gmail.com','Bharath',12,'Bharath36'),

('nishanth123@gmail.com','Nishanth',73,'Nishanth21'),

('praneshvarshini@gmail.com','Pranesh',85,'Varshini88');



2.Perform UPDATE,DELETE Queries with user table.

UPDATE TABLENO6

SET Rollnumber = 16

WHERE Username = 'Bharath';

DELETE FROM TABLENO6 WHERE Username='Pranesh' ;

The screenshot shows the IBM Db2 on Cloud SQL editor interface. The left sidebar displays the 'Data objects' tree with 'CRR86006' selected. The main editor area shows a script with the following SQL statements:

```
1 UPDATE TABLENO6
2 SET Rollnumber = 16
3 WHERE Username = 'Bharath';
4
5 DELETE FROM TABLENO6
6 WHERE Username='Pranesh';
```

The 'History' tab at the bottom shows the execution results:

| Script | Date | Status | Runtime |
|--|-------------------------|--------|---------|
| Untitled - 6 | Oct 1, 2022 10:54:26 PM | 2 | 0.017 s |
| UPDATE TABLENO6 SET Rollnumber = 16 WHERE Username = 'Bharath' | | ✓ | 0.009 s |
| DELETE FROM TABLENO6 WHERE Username='Pranesh' | | ✓ | 0.008 s |

The screenshot shows the IBM Db2 on Cloud 'Tables' view for the 'CRR86006.TABLENO6' table. The table structure is defined as:

| EMAIL | USERNAME | ROLLNUMBER | PASSWORD |
|-----------------------|----------|------------|------------|
| barathukil@gmail.com | Bharath | 16 | Bharath36 |
| nishanth123@gmail.com | Nishanth | 73 | Nishanth21 |
| ranjithavjm@gmail.com | Ranjitha | 87 | Ranj20 |

3. Connect python to db2.

CODE

```
import ibm_db

hostname = 'b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud'

uid = 'crr86006'

pwd = 'LL5uvdRk05KVGijH'

driver = "{IBM DB2 ODBC DRIVER}"

db = 'bludb'

port = '31249'

protocol = 'TCPIP'

cert = 'RanjithaCertificate.crt'

dsn = (

    "DATABASE = {0};"

    "HOSTNAME = {1};"

    "PORT = {2};"

    "UID = {3};"

    "SECURITY = SSL;"

    "SSIServerCertificate = {4};"

    "PWD = {5};"

).format(db, hostname, port, uid, cert, pwd)

print(dsn)

try:

    db2 = ibm_db.connect(dsn, " ", " ")

    print("connect to database")

except:

    print("unable to connect ", ibm_db.conn_errormsg())
```

The screenshot shows the PyCharm IDE interface. On the left, the 'Project' tool window displays the file structure of a project named 'tooo'. The files include certificates, Python scripts for various algorithms (greedy, sort), and IBM-related files. The 'Structure' tool window on the left shows the current file, 'praneshIBM.py'. The main editor displays the code for 'praneshIBM.py', which imports 'ibm_db' and configures connection parameters. The code defines variables for hostname, uid, pwd, driver, db, port, protocol, and cert. It then constructs a DSN string using these variables and attempts to connect to the database. A try-except block handles the connection attempt, printing the DSN on success and the error message on failure. The status bar at the bottom indicates the file encoding is UTF-8, the line length is 9.33, and the Python version is 3.9.

```
1 import ibm_db
2 hostname = 'b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnkrk39u98g.databases.appdomain.cloud'
3 uid = 'crr86006'
4 pwd = 'LL5uvdRk05KV6ijH'
5 driver = "{IBM DB2 ODBC DRIVER}"
6 db = 'bludb'
7 port = '31249'
8 protocol = 'TCP/IP'
9 cert = 'RanjithaCertificate.crt'
10 dsn = (
11     "DATABASE = {0};"
12     "HOSTNAME = {1};"
13     "PORT = {2};"
14     "UID = {3};"
15     "SECURITY = SSL;"
16     "SSLServerCertificate = {4};"
17     "PWD = {5};"
18 ).format(db, hostname, port, uid, cert, pwd)
19 print(dsn)
20 try:
21     db2 = ibm_db.connect(dsn, "", "")
22     print("connect to database")
23 except:
24     print("unable to connect ", ibm_db.conn_errormsg())
```

The screenshot shows a Windows Command Prompt window. The title bar reads 'Command Prompt'. The window content shows the following commands and output:

```
Microsoft Windows [Version 10.0.19044.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Users\vrroh>cd PycharmProjects\tooo

C:\Users\vrroh\PycharmProjects\tooo>python ranjithaIBM.py
DATABASE = bludb;HOSTNAME = b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnkrk39u98g.databases.appdomain.cloud;PORT = 3
1249;UID = crr86006;SECURITY = SSL;SSLServerCertificate = RanjithaCertificate.crt;PWD = LL5uvdRk05KV6ijH;
connect to database

C:\Users\vrroh\PycharmProjects\tooo>
```

4.Create a Flask application

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>About Page</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#b5dbf7;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link " href="home.html">Home</a>
          <a class="nav-link active" aria-current="page"
href="#">About</a>
          <a class="nav-link" href="signin.html">Sign In</a>
          <a class="nav-link" href="signup.html">Sign up</a>
        </div>
      </div>
    </div>

  </nav>
  <br><br>
  <footer>
    International Business Machines Corporation is an American
    multinational technology corporation headquartered in Armonk, New York, with
    operations in over 171 countries.
  </footer>

</body>

</html>
```

Home.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>Home Page</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#e3f2fd;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link active" aria-current="page"
href="#">Home</a>
          <a class="nav-link" href="about.html">About</a>
          <a class="nav-link" href="signin.html">SignIn</a>
          <a class="nav-link" href="signup.html">SignUp</a>
        </div>
      </div>
    </div>
  </nav>
  <br><br>
  <div>
    <h4>
      <b>Welcome to IBM!!!</B>
    </h4>
  </div>

</body>

</html>
```

Signin.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>SignIn</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#e3f2fd;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link" href="home.html">Home</a>
          <a class="nav-link" href="about.html">About</a>
          <a class="nav-link active" aria-current="page"
href="#">SignIn</a>
          <a class="nav-link" href="signup.html">SignUp</a>
        </div>
      </div>
    </div>

  </nav>
  <div class="text-center my-5"
style="background-image:
url('https://png.pngtree.com/thumb_back/fh260/background/20200714/pngtree-
modern-double-color-futuristic-neon-background-image_351866.jpg');
background-repeat: no-repeat;
background-size: cover;">

    <section class="h-100">
      <div class="container h-100">
        <div class="row justify-content-sm-center h-100">
          <div class="col-xxl-4 col-xl-5 col-lg-5 col-md-7 col-sm-
9">

            <div class="text-center my-5"></div>
            <div class="card shadow-lg">
              <div class="card-body p-5">
```

```

<h1 class="fs-4 card-title fw-bold mb-
4">Login</h1>
<form method="POST" class="needs-validation"
novalidate="" autocomplete="off">
    <div class="mb-3">
        <label class="mb-2 text-muted"
for="email">E-Mail Address</label>
        <input id="email" type="email"
class="form-control" name="email" value=""
            required autofocus>
        <div class="invalid-feedback">
            Email is invalid
        </div>
    </div>

    <div class="mb-3">
        <div class="mb-2 w-100">
            <label class="text-muted"
for="password">Password</label>
            <a href="forgot.html"
class="float-end">
                Forgot Password?
            </a>
        </div>
        <input id="password" type="password"
class="form-control" name="password"
            required>
        <div class="invalid-feedback">
            Password is required
        </div>
    </div>

    <div class="d-flex align-items-center">
        <div class="form-check">
            <input type="checkbox"
name="remember" id="remember"
class="form-check-input">
            <label for="remember" class="form-
check-label">Remember Me</label>
        </div>
        <button type="submit" class="btn btn-
primary ms-auto">
            Login
        </button>
    </div>
</form>
</div>
<div class="card-footer py-3 border-0">

```



```

                                <div class="text-center">
                                    Don't have an account? <a
href="signup.html" class="text-dark">Create
                                        One</a>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </section>
    </div>

</body>

</html>
```

Signup.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>SignUp</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color: #e3f2fd;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link" href="home.html">Home</a>
          <a class="nav-link" href="about.html">About</a>
          <a class="nav-link" href="signin.html">SignIn</a>
          <a class="nav-link active" aria-current="page" href="#">SignUp</a>
        </div>
      </div>
    </div>
  </nav>
  <div class="text-center my-5" style="background-image: url('https://png.pngtree.com/thumb_back/fh260/background/20200714/pngtree-modern-double-color-futuristic-neon-background-image_351866.jpg'); background-repeat: no-repeat; background-size: cover;">
    <section class="h-100">
      <div class="container h-100">
        <div class="row justify-content-sm-center h-100">
          <div class="col-xxl-4 col-xl-5 col-lg-5 col-md-7 col-sm-9">

            <div class="text-center my-5"></div>
            <div class="card shadow-lg">
              <div class="card-body p-5">
                <h1 class="fs-4 card-title fw-bold mb-4">Register</h1>

                <form method="POST" class="needs-validation" novalidate="" autocomplete="off">
```

```

        <div class="mb-3">
            <label class="mb-2 text-muted"
for="name">Name</label>
            <input id="name" type="text"
class="form-control" name="name" value="" required
            autofocus>
            <div class="invalid-feedback">
                Name is required
            </div>
        </div>

        <div class="mb-3">
            <label class="mb-2 text-muted"
for="email">E-Mail Address</label>
            <input id="email" type="email"
class="form-control" name="email" value=""
            required>
            <div class="invalid-feedback">
                Email is invalid
            </div>
        </div>

        <div class="mb-3">
            <label class="mb-2 text-muted"
for="password">Password</label>
            <input id="password" type="password"
class="form-control" name="password"
            required>
            <div class="invalid-feedback">
                Password is required
            </div>
        </div>

        <p class="form-text text-muted mb-3">
            By registering you agree with our
terms and condition.
        </p>

        <div class="align-items-center d-flex">
            <button type="submit" class="btn btn-
primary ms-auto">
                Register
            </button>
        </div>
    </form>
</div>
<div class="card-footer py-3 border-0">
    <div class="text-center">

```

