

ASSIGNMENT NO 3

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PROJECT: NEWS TRACKER APPLICATION

PROJECT ID: PNT2022TMID37100

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

Query:

INSERT INTO TABLE

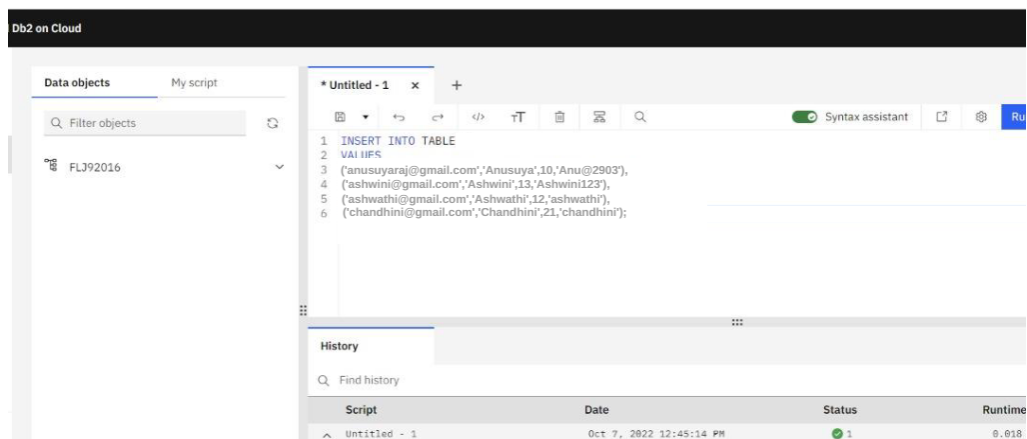
VALUES

('anusuyaraj@gmail.com','Anusuya',10,'Anu@2903'),

('ashwini@gmail.com','Ashwini',13,'Ashwini123'),

('ashwathi@gmail.com','Ashwathi',12,'ashwathi'),

('chandhini@gmail.com','Chandhini',21,'chandhini');



IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

FLJ92016.TABLE Back

Export to CSV

EMAIL	USERNAME	ROLLNO	PASSWORD
anusuyaraj@gmail.com	Anusuya	11	Anu@2903
ashwini@gmail.com	Ashwini	13	Ashwini123
ashwathi@gmail.com	Ashwathi	12	ashwathi
chandhini@gmail.com	Chandhini	21	chandhini

2.Perform UPDATE, DELETE Queries with user table.

Query : UPDATE TABLE

SET username = 'Ashwathi'

WHERE ROLLNO = 12 ;

DELETE FROM TABLE

WHERE username = 'Ashwini';

Db2 on Cloud

Data objects My script

Filter objects

FLJ92016

Untitled - 1 *Untitled - 2

1 UPDATE TABLE
2 SET username = 'Ashwathi s
3 WHERE rollno = 12
4
5 DELETE FROM TABLE
6 WHERE username = 'Ashwini';

Explain the statement

Syntax assistant Run all

History

Find history

Script	Date	Status	Runtime
Untitled - 2	Oct 7, 2022 12:49:28 PM	2	0.839 s

The screenshot shows the IBM DB2 on Cloud console interface. At the top, there's a navigation bar with tabs: Load Data, Load History, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The 'Tables' tab is selected. Below the navigation bar, the table 'FLJ92016.TABLE' is displayed. To the right of the table name are 'Back' and 'Export to CSV' buttons. The table data is as follows:

EMAIL	USERNAME	ROLLNO	PASSWORD
ashwathi@gmail.com	Ashwathi s	12	ashwathi
chandhini	Chandhini	21	chandhini

3. Connect python to db2.

CODE:

```
import ibm_db
```

```
hostname = '9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud'
```

```
uid = 'flj92016'
```

```
pwd = 'wxhYtwp6ojv7R7I4'
```

```
driver = "{IBM DB2 ODBC DRIVER}"
```

```
db = 'bludb'
```

```
port = '32459'
```

```
protocol = 'TCPIP'
```

```
cert = "AnusuyaCertificate.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)
```

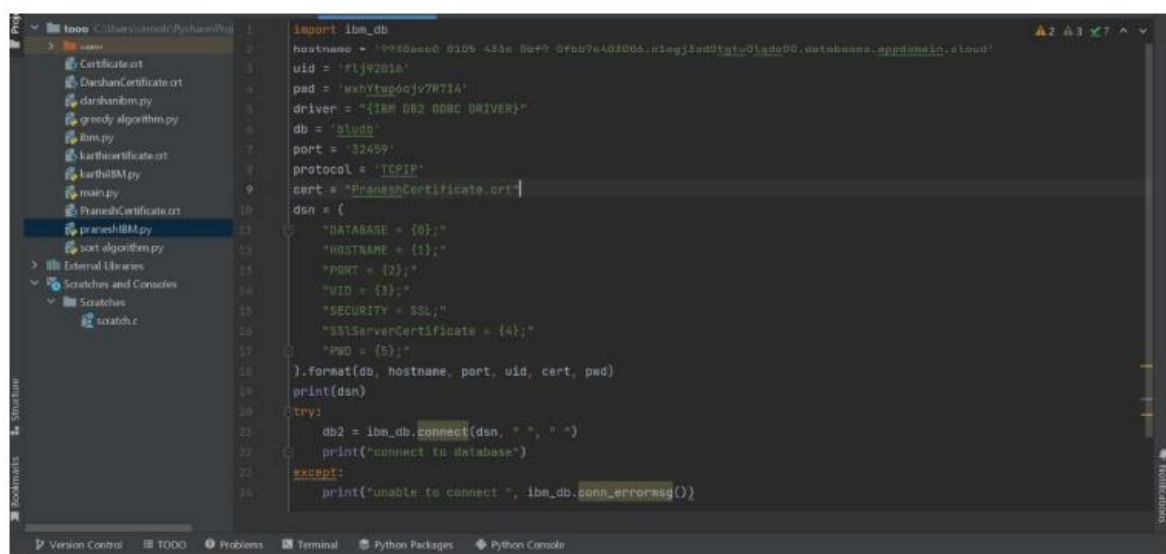
```
try:
```

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

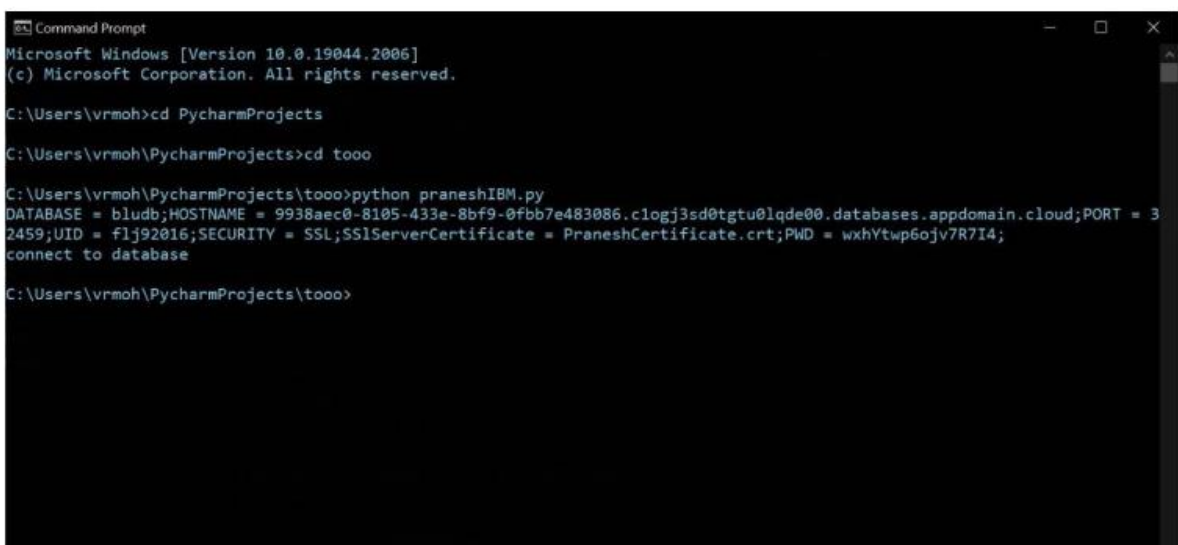
```
print("connect to database")
```

```
except:
```

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

A screenshot of the PyCharm IDE interface. The left sidebar shows a project tree with files like Certificate.crt, DarshanCertificate.crt, darshanibm.py, greedy_algorithm.py, ibm.py, karthiCertificate.crt, karthiIBM.py, main.py, PraneeshCertificate.crt, pranesIBM.py, and sort_algorithm.py. The main editor window displays the code for pranesIBM.py. The code includes imports for ibm_db, variables for hostname, uid, pwd, driver, db, port, protocol, cert, and a dictionary for dsn. It then formats the dsn, prints it, and attempts to connect to the database using ibm_db.connect. A try-except block handles the connection attempt, printing an error message if it fails.

```
1 import ibm_db
2 hostname = '9938aec0-8105-433e-8bf9-0fbb7e483086.clogj3sd0tgtu0lqde00.databases.appdomain.cloud'
3 uid = 'flj92016'
4 pwd = 'wxhYtp60jv7R7I4'
5 driver = '{IBM DB2 ODBC DRIVER}'
6 db = 'bludb'
7 port = '32459'
8 protocol = 'TCP/IP'
9 cert = 'PraneeshCertificate.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 }
19 ).format(db, hostname, port, uid, cert, pwd)
20 print(dsn)
21 try:
22     db2 = ibm_db.connect(dsn, " ", " ")
23     print("connect to database")
24 except:
25     print("unable to connect ", ibm_db.conn_errormsg())
```

A screenshot of a Windows Command Prompt window. It shows the directory path C:\Users\vrmo\PycharmProjects\tooo and the execution of the Python script pranesIBM.py. The output displays the formatted DSN string and the successful connection message "connect to database".

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

C:\Users\vrmo\PycharmProjects>cd PycharmProjects
C:\Users\vrmo\PycharmProjects>cd tooo
C:\Users\vrmo\PycharmProjects\tooo>python pranesIBM.py
DATABASE = bludb;HOSTNAME = 9938aec0-8105-433e-8bf9-0fbb7e483086.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT = 32459;UID = flj92016;SECURITY = SSL;SSLServerCertificate = PraneeshCertificate.crt;PWD = wxhYtp60jv7R7I4;
connect to database

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

4. TO CREATE A FLASK

about.html

```
<!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>

    Enjoy your news

  </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</labe
l>
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="pas
sword">P
Password?
    </div>
    <input id="password" type="password"
class="f
required>
    <div class="invalid-feedback">
      Password is required
    </div>
  </div>
end">
</div>
class="form-
control"
name="passwor
d"
label">Remember Me</label>
name="remembe primary ms-auto">
r"
id="remember"

```



```

        checkbox"
        class="d-
        flex align-
        items-
        center">
            <div
            class="
            form-
            check">
                <input
                type="checkbox"
                class="form-check-input"
                checked=""
                id="remember">
                    Remember me
            </div>
            <button type="submit" class="btn btn-
            primary">
                Login
            </button>
        </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>
</section>
</div>
</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">P
assword</label>
            <input id="password" type="password"
class="form-
            required>
            <div class="invalid-feedback">
                Password is required
            </div>
        </div>
name="password"

```

```

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

```

```

    </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">
```

```

    Already have an account?
<a href="signin.html" class="text-dark">Login</a>
    </div>
  </div>
</div>

</div>
</div>
</section>
</div>

</body>

</html>

```

app.py

```
from flask import Flask, render_templateapp =

Flask(__name__)

@app.route("/")
@app.route("/home")def home():
    return render_template("home.html")

@app.route("/about")def about():
    return render_template("about.html")

@app.route("/signin")def signin():
    return render_template("signin.html")

@app.route("/signup")def signup():
    return render_template("signup.html")
```