

ASSIGNMENT - 3

TEAM ID : PNT2022TMID19384

PROJECT NAME : CONTAINMENT ZONE ALERTING APPLICATION

1. CREATE USER TABLE WITH EMAIL, USERNAME,ROLL NUMBER ,PASSWORD

The screenshot displays the IBM Db2 on Cloud web interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables' (selected), 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. A search bar for 'Find schemas or tables' is present. The left sidebar shows 'Schemas' and 'SQL' tabs. The main content area is divided into two panels. The left panel, titled 'Tables', shows a list of tables in the 'FJB76477' schema: 'USER' (selected), 'TABLE5', 'TABLE4', 'TABLE3', 'TABLE2', and 'TABLE1'. The right panel, titled 'Table definition', shows the definition for the 'USER' table. It lists columns: 'EMAIL' (VARCHAR, 32, nullable), 'USERNAME' (VARCHAR, 32, nullable), 'ROLLNUMBER' (VARCHAR, 32, nullable), and 'PASSWORD' (INTEGER, nullable). A 'View data' button is at the bottom. A Windows activation watermark is visible in the bottom right corner.

Name	Schema	Properties
<input checked="" type="checkbox"/> USER	FJB76477	...
<input type="checkbox"/> TABLE5	FJB76477	...
<input type="checkbox"/> TABLE4	FJB76477	...
<input type="checkbox"/> TABLE3	FJB76477	...
<input type="checkbox"/> TABLE2	FJB76477	...
<input type="checkbox"/> TABLE1	FJB76477	...

Name	Data type	Nullable	Length	Scale
EMAIL	VARCHAR	Y	32	0
USERNAME	VARCHAR	Y	32	0
ROLLNUMBER	VARCHAR	Y	32	0
PASSWORD	INTEGER	Y		0

INSERT QUERY :

INSERT INTO USER(email,username,rollnumber,password)

VALUES('darshanganesh23@gmail.com','Darshan_24','19CS015',1234),

('jayasimman43@gmail.com','Jaya43','19CS043',4321),

('mohanlal67@gmail.com','Mohan67','19CS067',6789),

('thiyagu17@gmail.com','Thiya17','19CS017',1711);

The screenshot shows the IBM Db2 on Cloud SQL editor interface. On the left, the 'Data objects' pane shows a database named 'FJB76477' with a table named 'USER'. The main editor area shows the following SQL query:

```
1 INSERT INTO USER(email,username,rollnumber,password)
2 VALUES('darshanganesh23@gmail.com','Darshan_24','19CS015',1234),
3 ('jayasimman43@gmail.com','Jaya43','19CS043',4321),
4 ('mohanlal67@gmail.com','Mohan67','19CS067',6789),
5 ('thiyagu17@gmail.com','Thiya17','19CS017',1711);
```

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

Script	Date	Status	Runtime
Untitled - 1	Oct 8, 2022 10:46:41 AM	✓ 1	0.008 s
INSERT INTO USER(email,username,rollnumber,password) VALUES('da...		✓	0.008 s

AFTER INSERTING THE VALUES INTO THE TABLE:

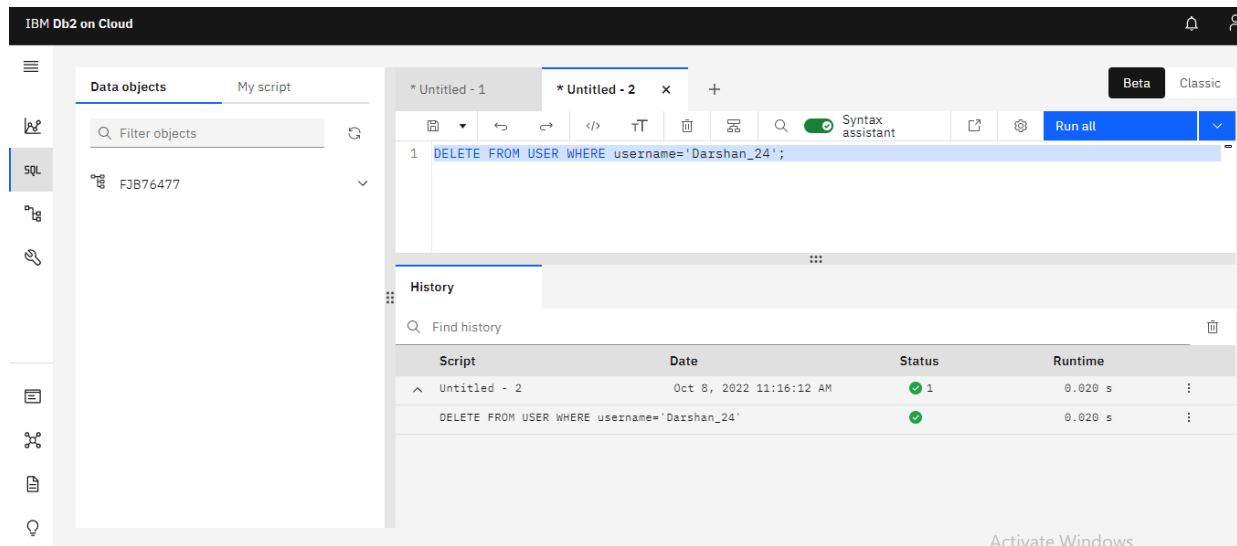
The screenshot shows the IBM Db2 on Cloud SQL editor interface displaying the data inserted into the 'USER' table. The table has the following columns: EMAIL, USERNAME, ROLLNUMBER, and PASSWORD.

EMAIL	USERNAME	ROLLNUMBER	PASSWORD
darshanganesh23@gmail.com	Darshan_24	19CS015	1234
jayasimman43@gmail.com	darshanganesh23@gmail.com	19CS043	4321
mohanlal67@gmail.com	Mohan67	19CS067	6789
thiyagu17@gmail.com	Thiya17	19CS017	1711

2. PERFORM UPDATE AND DELETE QUERIES WITH USER TABLE :

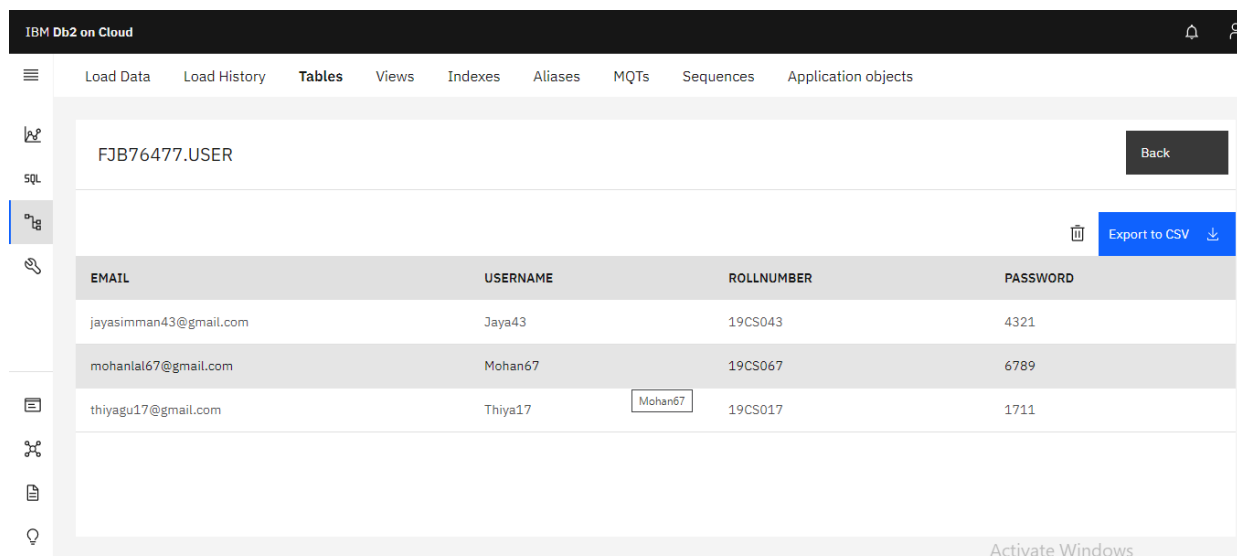
DELETING QUERY :

DELETE FROM USER WHERE username='Darshan_24';



The screenshot shows the IBM Db2 on Cloud console. On the left, the 'Data objects' tab is selected, showing a search bar and a list of objects including 'FJB76477'. The main area displays a SQL script in a text editor with the query: `DELETE FROM USER WHERE username='Darshan_24';`. Below the editor, a 'History' table shows the execution details of the script.

Script	Date	Status	Runtime
Untitled - 2	Oct 8, 2022 11:16:12 AM	✓ 1	0.020 s
DELETE FROM USER WHERE username='Darshan_24'		✓	0.020 s



The screenshot shows the IBM Db2 on Cloud console with the 'Tables' tab selected. The table 'FJB76477.USER' is displayed, showing columns: EMAIL, USERNAME, ROLLNUMBER, and PASSWORD. The table contains three rows of data. A 'Back' button is visible in the top right corner, and an 'Export to CSV' button is in the top right of the table area.

EMAIL	USERNAME	ROLLNUMBER	PASSWORD
jayasimman43@gmail.com	Jaya43	19CS043	4321
mohanlal67@gmail.com	Mohan67	19CS067	6789
thiyagu17@gmail.com	Thiya17	Mohan67 19CS017	1711

UPDATING QUERY :

INSERT INTO USER(email,username,rollnumber,password)

VALUES('darshanganesh23@gmail.com','Darshan_24','19CS015',1234);

UPDATE user SET email='thiyagu@gmail.com',password='4141' WHERE rollnumber='19CS017';

The screenshot displays the IBM Db2 on Cloud interface. On the left, the 'Data objects' tab is active, showing a search bar and a list of objects including 'FJB76477'. The main area is divided into two panes. The top pane, titled 'My script', contains two tabs: '*Untitled - 1' and '*Untitled - 2'. The '*Untitled - 1' tab is selected and shows the following SQL queries:

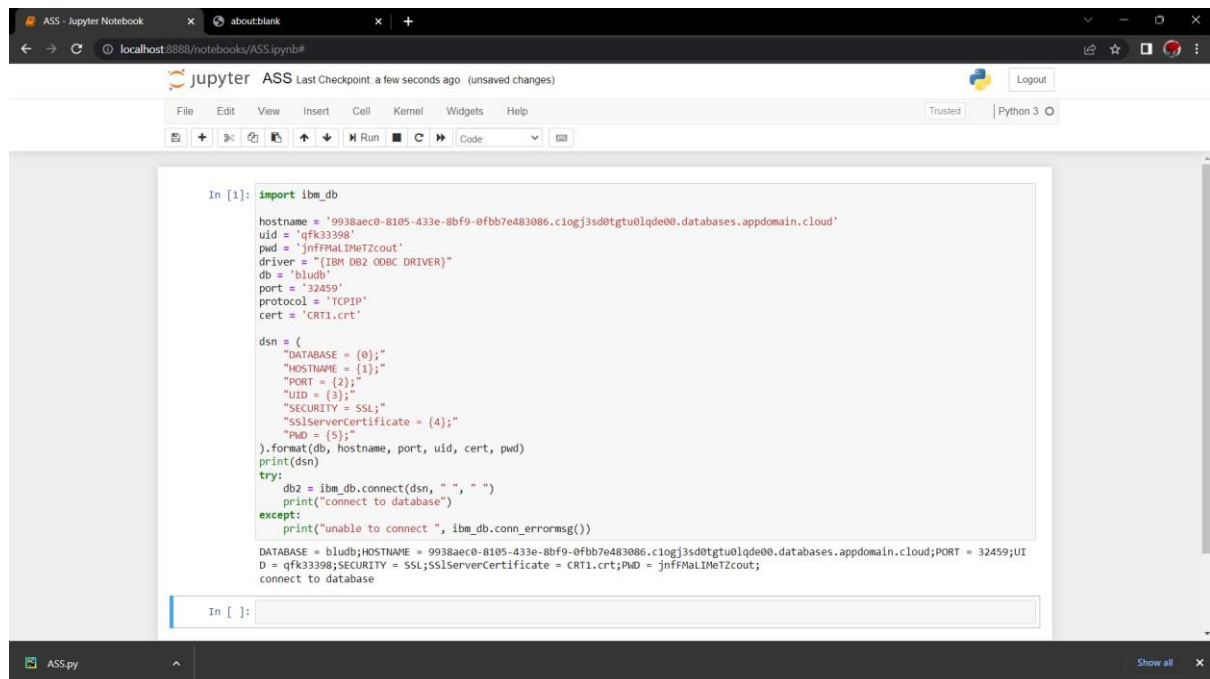
```
1 INSERT INTO USER(email,username,rollnumber,password) VALUES('darshanganesh23@gmail.com','Darshan_24',
2 UPDATE user SET email='thiyagu@gmail.com',password='4141' WHERE rollnumber='19CS017';
3
```

The bottom pane, titled 'History', shows a table of executed scripts. The table has columns for 'Script', 'Date', 'Status', and 'Runtime'. The data is as follows:

Script	Date	Status	Runtime
Untitled - 1	Oct 8, 2022 11:27:49 AM	2	0.027 s
INSERT INTO USER(email,username,rollnumber,password) VALUES('da...			0.020 s
UPDATE user SET email='thiyagu@gmail.com',password='4141' WHERE...			0.007 s
Untitled - 2	Oct 8, 2022 11:16:12 AM	1	0.020 s
DELETE FROM USER WHERE username='Darshan_24'			0.020 s

The interface also includes a 'Run all' button and a 'Syntax assistant' toggle. The bottom right corner of the window shows the text 'Activate Windows'.

3.CONNECT PYTHON TO db2:



The screenshot shows a Jupyter Notebook interface in a web browser. The browser address bar shows 'localhost:8888/notebooks/ASS.ipynb#'. The Jupyter Notebook header includes the title 'ASS - Jupyter Notebook', a 'Logout' button, and a 'Python 3' kernel selector. The notebook interface has a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for saving, undo, redo, and running code. The main area contains a code cell with the following Python code:

```
In [1]: import ibm_db

hostname = '9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0gtu0lqde00.databases.appdomain.cloud'
uid = 'qfk33398'
pwd = 'jnffMaLIHeTZcout'
driver = "(IBM DB2 ODBC DRIVER)"
db = 'bludb'
port = '32459'
protocol = 'TCP/IP'
cert = 'CRT1.crt'

dsn = {
    "DATABASE = {0};",
    "HOSTNAME = {1};",
    "PORT = {2};",
    "UID = {3};",
    "SECURITY = SSL;",
    "SSLServerCertificate = {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())

DATABASE = bludb;HOSTNAME = 9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0gtu0lqde00.databases.appdomain.cloud;PORT = 32459;UID = qfk33398;SECURITY = SSL;SSLServerCertificate = CRT1.crt;PWD = jnffMaLIHeTZcout;
connect to database
```

Below the code cell, there is a prompt 'In []:' and an empty input field. The bottom status bar shows 'ASS.py' and a 'Show all' button.

CODE :

```
import ibm_db
hostname = '9938aec0-8105-433e-8bf9-
0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud'
uid = 'qfk33398'
pwd = 'jnfFMaLIMeTZcout'
driver = "{IBM DB2 ODBC DRIVER}"
db = 'bludb'
port = '32459'
protocol = 'TCPIP'
cert = 'CRT1.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())
```

4.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>
    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>
</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">

```

