

ASSIGNMET – 3

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PROJECT NAME	SKILL / JOB RECOMMENDER APPLICATION

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

The screenshot shows a database management interface. On the left, there's a 'Tables' panel with a search bar and a list of tables: ASS3, FILE, TABLE1, TABLE2, TABLE3, and TABLE4. The 'ASS3' table is selected. On the right, the 'Table definition' panel shows the structure of the 'ASS3' table. It has five columns: EMAIL, USERNAME, ROLLNO, PASSWORD, and an unnamed column. All columns are of type VARCHAR with a length of 32 and are nullable. The 'View data' button is visible at the bottom of the table definition panel.

Query to INSERT :

```

INSERT INTO ASS3(email, username, rollno, password)
VALUES('george@gmail.com','george', '19CS027', 'jopp');
INSERT INTO ASS3(email, username, rollno, password)
VALUES('chatriya@gmail.com','chat', '19CS013', 'koppp');
INSERT INTO ASS3(email, username, rollno, password)
VALUES('gokul@gmail.com','goku', '19CS030', 'hoppp');
INSERT INTO ASS3(email, username, rollno, password)
VALUES('karthi@gmail.com','karthiii', '19CS049', 'loppp');
INSERT INTO ASS3(email, username, rollno, password)

```

VALUES('dinesh@gmail.com','babu', '19CS024', 'goppp');

The screenshot shows a database IDE interface. On the left, there's a sidebar with 'Data objects' and 'My script'. The main area displays a script with 10 lines of SQL code, each an INSERT statement into a table named ASS3. The last line is highlighted. Below the script, there's a 'History' section with a table showing the execution history of the script.

Script	Date	Status	Runtime
Untitled - 6	Oct 7, 2022 7:54:20 PM	5	0.048 s
INSERT INTO ASS3(email, username, rollno, password) VA...			0.008 s
INSERT INTO ASS3(email, username, rollno, password) VA...			0.014 s

After inserting the details or values into the Table:

The screenshot shows the IBM Db2 on Cloud console. The 'Tables' tab is selected, and a table named 'PKV26008.USER' is displayed. The table has four columns: EMAIL, NAME, ROLL_NUMBER, and PASSWORD. The table contains 10 rows of data, including the user 'dinesh@gmail.com' with the name 'babu' and roll number '19CS024'.

EMAIL	NAME	ROLL_NUMBER	PASSWORD
bala@gmail.com	Bala	5	Balaranges787
barath@gmail.com	Barath	9	Barath2000
chatriya@gmail.com	Chatriya	13	chatriya13
dinesh@gmail.com	Dinesh	24	godinesh4
george@gmail.com	George	27	george742
gokul@gmail.com	Gokul	30	goku7810
harsha@gmail.com	Harsha	34	HarSha450
karthikeyan@gmail.com	Karthikeyan	49	karthi45
neymar789@gmail.com	Neymar	70	NeYmAr012
nishanth@gmail.com	Nishanth	73	Nishsw784

2. Perform UPDATE and DELETE queries with user table.

Query to Deleting :

DELETE FROM USER WHERE NAME='Neymar';

The screenshot shows the IBM Db2 on Cloud console. On the left, the 'Data objects' panel lists 'PKV26008'. The main editor area shows a script with the query: `DELETE FROM USER WHERE NAME='Neymar';`. Below the editor, the 'History' tab displays a table of executed scripts.

Script	Date	Status	Runtime
Untitled - 2	Oct 7, 2022 9:56:51 PM	✓ 1	0.019 s
DELETE FROM USER WHERE NAME='Neymar'		✓	0.019 s

The screenshot shows the IBM Db2 on Cloud console with the 'Tables' tab selected. The table 'PKV26008.USER' is displayed. An 'Export to CSV' button is visible in the top right corner of the table view.

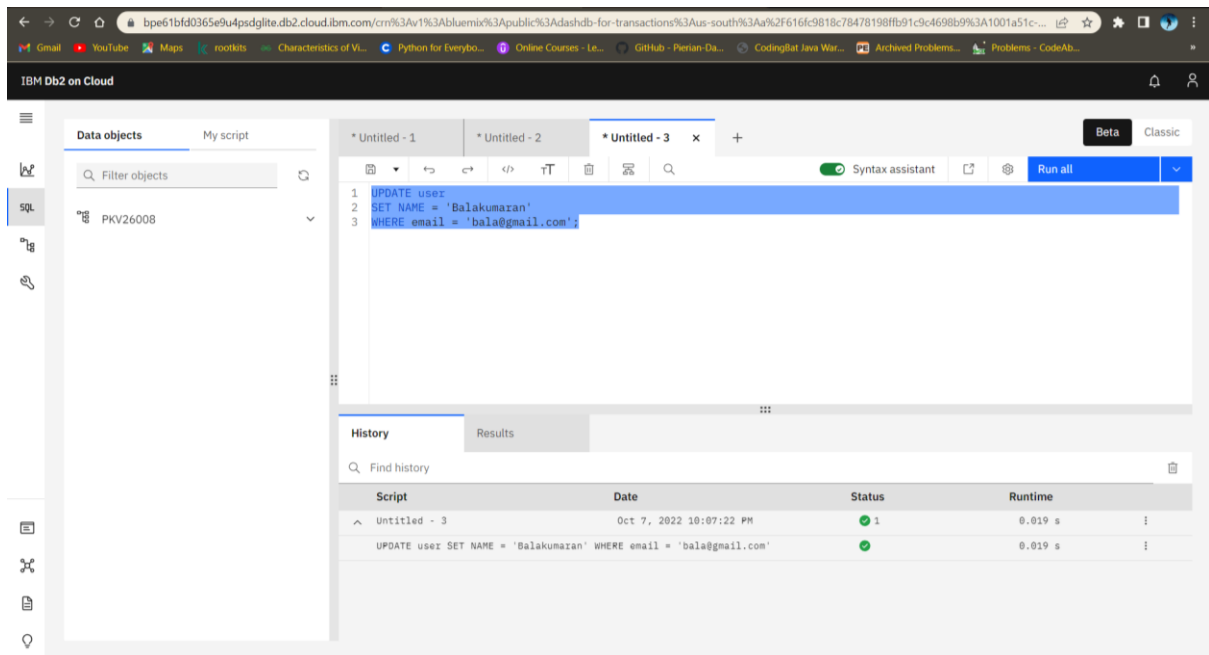
EMAIL	NAME	ROLL_NUMBER	PASSWORD
bala@gmail.com	Bala	5	Balaranges787
barath@gmail.com	Barath	9	Barath2000
chathriya@gmail.com	Chathriya	13	chathriya13
dinesh@gmail.com	Dinesh	24	godinesh4
george@gmail.com	George	27	george742
gokul@gmail.com	Gokul	30	goku7810
harsha@gmail.com	Harsha	34	HarSha450
karthikeyan@gmail.com	Karthikeyan	49	karthi45
nishanth@gmail.com	Nishanth	73	Nishsw784

Query to update :

UPDATE user

SET NAME = 'Balakumaran'

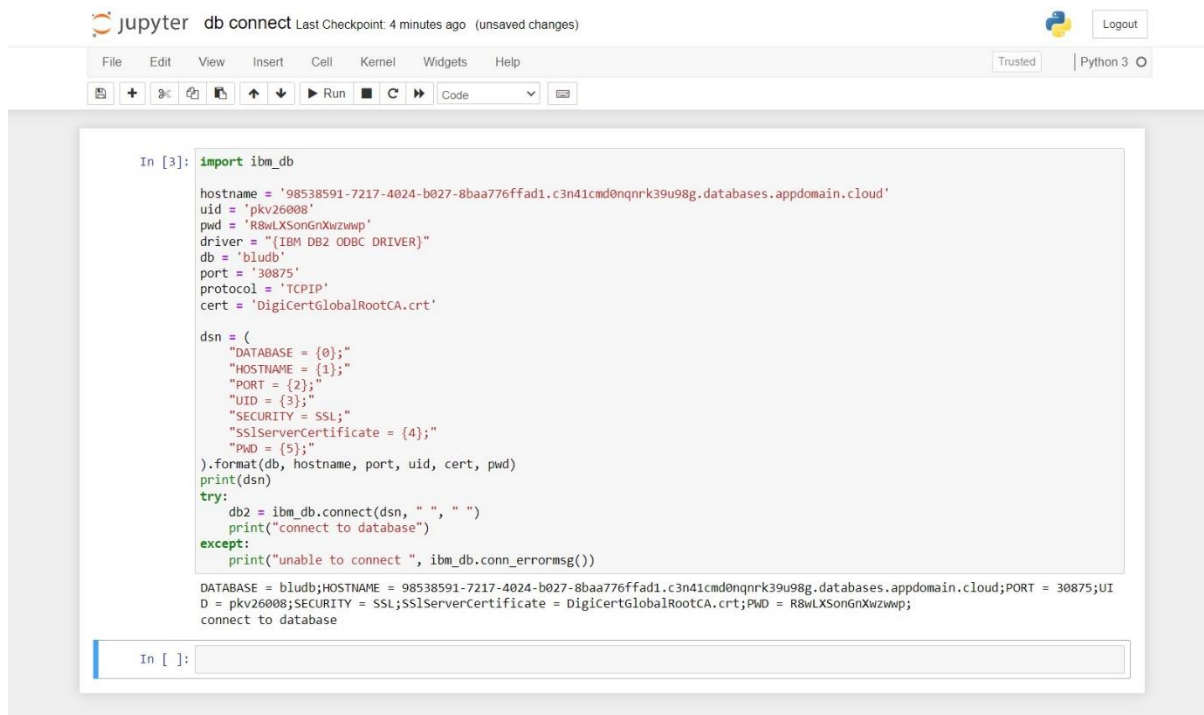
WHERE email = 'bala@gmail.com';



The screenshot shows the IBM Db2 on Cloud web interface displaying the data in the 'PKV26008.USER' table. The table has four columns: EMAIL, NAME, ROLL_NUMBER, and PASSWORD. The data is as follows:

EMAIL	NAME	ROLL_NUMBER	PASSWORD
bala@gmail.com	Balakumaran	5	Balaranges787
barath@gmail.com	Barath	9	Barath2000
chatriya@gmail.com	Chathriya	13	chathriya13
dinesh@gmail.com	Dinesh	24	godinesh4
george@gmail.com	George	27	george742
gokul@gmail.com	Gokul	30	goku7810
harsha@gmail.com	Harsha	34	HarSha450
karthikeyan@gmail.com	Karthikeyan	49	karthi45
nishanth@gmail.com	Nishanth	73	Nishsw784

3. Connect python to db2.



```
In [3]: import ibm_db

hostname = '98538591-7217-4024-b027-8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud'
uid = 'pkv26008'
pwd = 'R8wLXSonGnXwzwwp'
driver = "{IBM DB2 ODBC DRIVER}"
db = 'bludb'
port = '30875'
protocol = 'TCPIP'
cert = 'DigiCertGlobalRootCA.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 = 98538591-7217-4024-b027-8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT = 30875;UID = pkv26008;SECURITY = SSL;SSLServerCertificate = DigiCertGlobalRootCA.crt;PWD = R8wLXSonGnXwzwwp;
connect to database
```

Code :

```
import ibm_db
```

```
hostname = '98538591-7217-4024-b027-8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud'
```

```
uid = 'pkv26008'
```

```
pwd = 'R8wLXSonGnXwzwwp'
```

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

```
db = 'bludb'
```

```
port = '30875'
```

```
protocol = 'TCPIP'
```

```
cert = 'DigiCertGlobalRootCA.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())
```

4. about.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>
</div>
</nav>
<br>
<div>
<h4>
<b>Welcome to IBM!!!</B>
</h4>
</div>
</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>
</div>
</nav>
<br><br>
<div>
<h4>
<b>Welcome to IBM!!!</B>
</h4>
</div>
</body>
</html>
```

Sign.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>
</div>
</nav>
<div class="text-center my-5"
style="background-image:
url('https://png.pngtree.com/thumb_back/fh260/background/20200714/pngtreemodern-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-sm9">
```

```
<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 mb4">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="formcheck-label">Remember Me</label>
```

```
</div>
```

```
<button type="submit" class="btn btnprimary ms-auto">
```

```
Login
```

```
</button>
```

```
</div>
```

```
</form>
```

```
</div>
```

```
<div class="card-footer py-3 border-0">
```

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>
</div>
</nav>
<div class="text-center my-5"
style="background-image:
url('https://png.pngtree.com/thumb_back/fh260/background/20200714/pngtreemodern-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-sm9">
<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 mb4">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>
</div>
</div>
```

```
</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 btnprimary 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>
</div>
</div>
</div>
</div>
</section>
</div>
</body>
</html>
```

```
from flask import Flask, render_template
app = 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")
```