

## ASSIGNMET – 3

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<b>PROJECT NAME</b>	<b>SKILL / JOB RECOMMENDER APPLICATION</b>

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

The screenshot shows the IBM Db2 on Cloud web interface. A red error banner at the top states: "Error: Please check network connectivity then try again." Below this, the "Tables" panel on the left lists several tables (TABLE1 to TABLE5 and USER) under the schema SKG38697. The "USER" table is selected. The "Table definition" panel on the right shows the structure of the "USER" table:

Name	Data type	Nullable	Length	Scale
EMAIL	VARCHAR	Y	32	0
NAME	VARCHAR	Y	32	0
ROLLNO	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

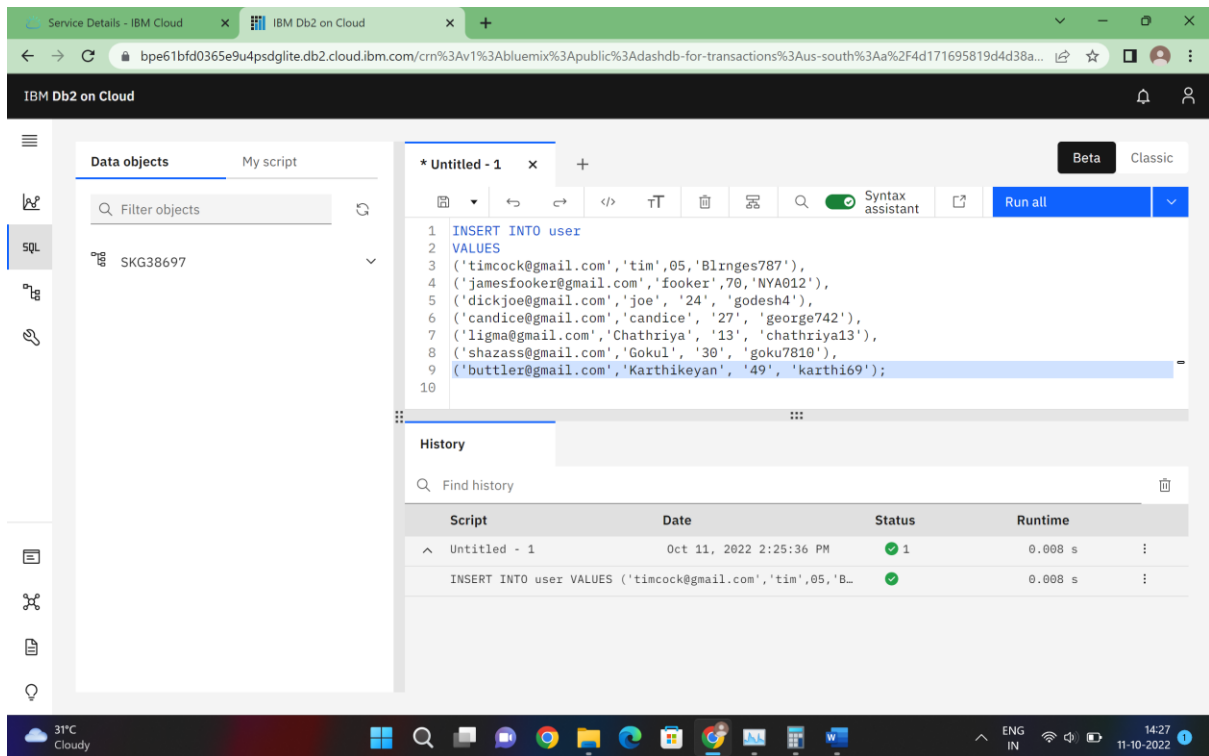
A "View data" button is visible at the bottom of the table definition panel. The bottom of the screenshot shows a Windows taskbar with the date 11-10-2022 and time 14:35.

### Query to INSERT :

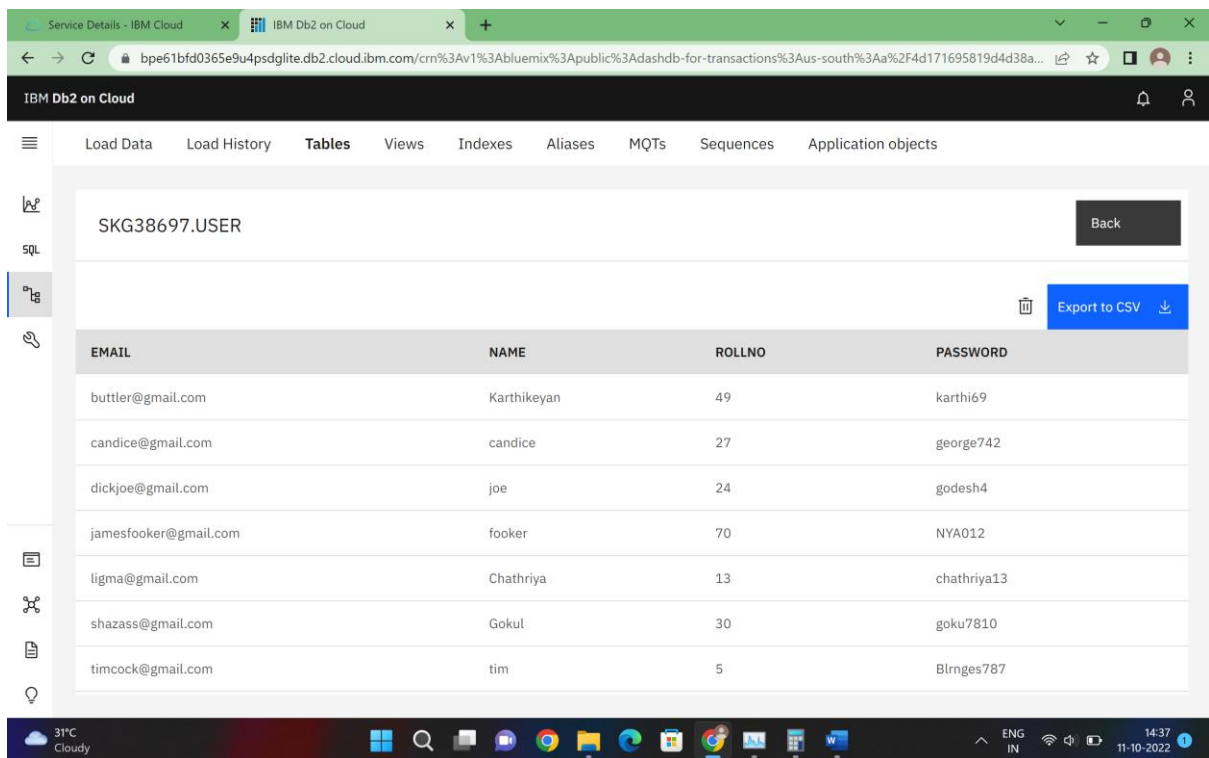
INSERT INTO user

VALUES

( 'timcock@gmail.com','tim',05,'Blrnges787'),  
 ('jamesfooker@gmail.com','fooker',70,'NYA012'),  
 ('dickjoe@gmail.com','joe', '24', 'godesh4'),  
 ('candice@gmail.com','candice', '27', 'george742'),  
 ('ligma@gmail.com','Chathriya', '13', 'chathriya13'),  
 ('shazass@gmail.com','Gokul', '30', 'goku7810'),  
 ('buttler@gmail.com','Karthikeyan', '49', 'karthi69');



After inserting the details or values into the Table:



## 2. Perform UPDATE and DELETE queries with user table.

### Query to Deleting :

DELETE FROM USER WHERE NAME='joe';

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 'SKG38697'. The main area displays a SQL editor with the query 'DELETE FROM USER WHERE NAME='joe';' entered. Below the editor, a 'History' tab is active, showing a table of executed scripts.

Script	Date	Status	Runtime
Untitled - 2	Oct 11, 2022 2:40:19 PM	✓ 1	0.020 s
DELETE FROM USER WHERE NAME='joe'		✓	0.020 s
Untitled - 1	Oct 11, 2022 2:25:36 PM	✓ 1	0.008 s
INSERT INTO user VALUES ('timcock@gmail.com','tim',05,'B...		✓	0.008 s

The screenshot shows the IBM Db2 on Cloud console with the 'Tables' tab selected. The table 'SKG38697.USER' is displayed. The table has four columns: EMAIL, NAME, ROLLNO, and PASSWORD. The data is as follows:

EMAIL	NAME	ROLLNO	PASSWORD
buttlr@gmail.com	Karthikeyan	49	karthi69
candice@gmail.com	candice	27	george742
jamesfooker@gmail.com	fooker	70	NYA012
ligma@gmail.com	Chathriya	13	chathriya13
shazass@gmail.com	Gokul	30	goku7810
timcock@gmail.com	tim	5	Blrnges787

## Query to update :

UPDATE user

SET NAME = 'etas'

WHERE email = 'shazass@gmail.com';

The screenshot shows the IBM Db2 on Cloud console. The left sidebar has a menu with options like 'Data objects', 'My script', 'SQL', and 'History'. The main area is divided into two panes. The top pane, titled '\*Untitled - 3', contains the following SQL query:

```
1 UPDATE user
2 SET NAME = 'etas'
3 WHERE email = 'shazass@gmail.com';
```

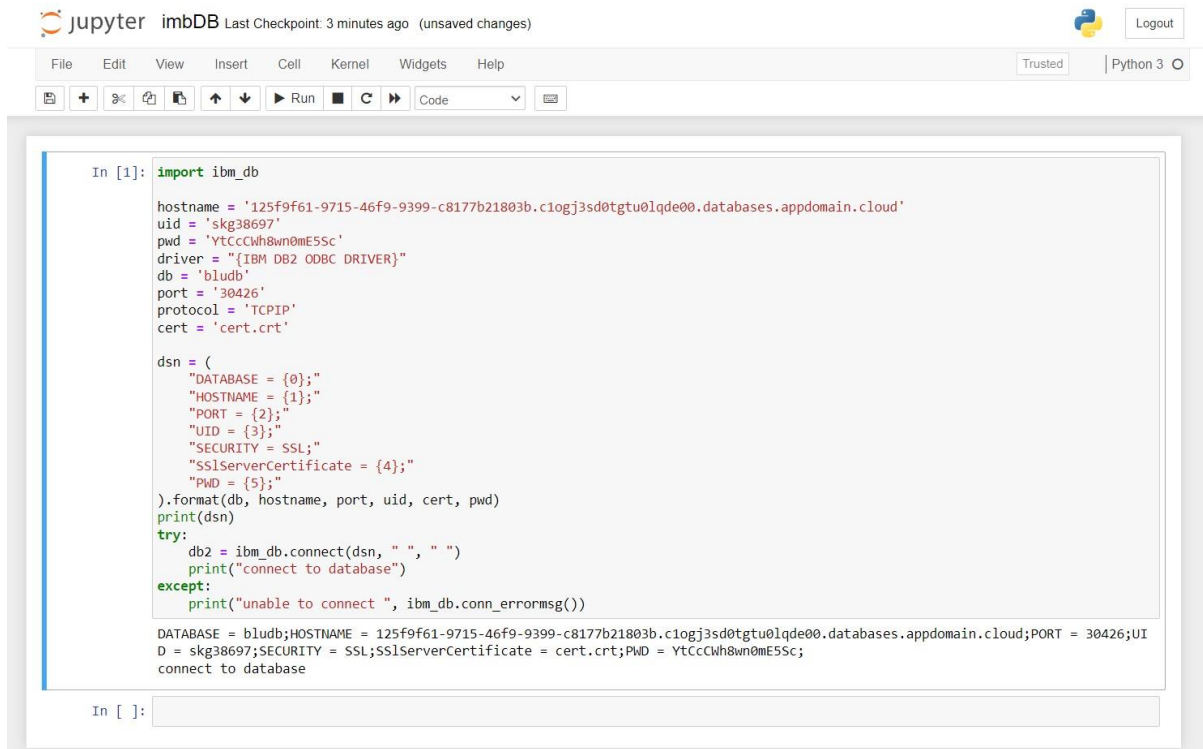
The bottom pane, titled 'History', shows a table of executed scripts:

Script	Date	Status	Runtime
Untitled - 3	Oct 11, 2022 2:44:53 PM	✓ 1	0.011 s
UPDATE user SET NAME = 'etas' WHERE email = 'shazass@gmail.com'		✓	0.011 s
Untitled - 2	Oct 11, 2022 2:40:19 PM	✓ 1	0.020 s
Untitled - 1	Oct 11, 2022 2:25:36 PM	✓ 1	0.008 s

The screenshot shows the IBM Db2 on Cloud console with the 'Tables' tab selected. The main area displays a table named 'SKG38697.USER'. The table has four columns: 'EMAIL', 'NAME', 'ROLLNO', and 'PASSWORD'. The data is as follows:

EMAIL	NAME	ROLLNO	PASSWORD
buttlert@gmail.com	Karthikeyan	49	karthi69
candice@gmail.com	candice	27	george742
jamesfooker@gmail.com	fooker	70	NYA012
ligma@gmail.com	Chathriya	13	chathriya13
shazass@gmail.com	etas	30	goku7810
timcock@gmail.com	tim	5	Blrnge787

### 3. Connect python to db2.



The image shows a Jupyter Notebook interface with the title 'jupyter imbDB'. The top bar indicates 'Last Checkpoint: 3 minutes ago (unsaved changes)' and includes a 'Logout' button. The menu bar includes 'File', 'Edit', 'View', 'Insert', 'Cell', 'Kernel', 'Widgets', and 'Help'. The toolbar contains icons for file operations, running, and code execution. The code cell contains the following Python code:

```
In [1]: import ibm_db

hostname = '125f9f61-9715-46f9-9399-c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud'
uid = 'skg38697'
pwd = 'YtCcCWh8wn0mE5Sc'
driver = "{IBM DB2 ODBC DRIVER}"
db = 'bludb'
port = '30426'
protocol = 'TCPIP'
cert = 'cert.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 = 125f9f61-9715-46f9-9399-c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT = 30426;UID = skg38697;SECURITY = SSL;SSLServerCertificate = cert.crt;PWD = YtCcCWh8wn0mE5Sc;
connect to database
```

Below the code cell, there is an input field for the next prompt: 'In [ ]: '.

#### Code :

```
import ibm_db
```

```
hostname = '19af6446-6171-4641-8aba-9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud:30699'
```

```
uid = 'mgw31019'
```

```
pwd = '5YyXwC8wpd4ts4Fg'
```

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

```
db = 'bludb'
```

```
port = '30699'
```

```
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>
</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>
</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>
</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>

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

## **app.py**

```
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")
```