

Assignment -2

Assignment Date	27 September 2022
Student Name	Mr. Jetson Cyrus J
Student Roll Number	9517201904060
Maximum Marks	2 Marks

Question-1:

- 1.Create User table with user with email,username,roll number, password.
2. Perform UPDATE,DELETE Queries with user table
3. Connect python code to db2.
4. Create a flask app with registration page, login page and welcome page.

By default, load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.

Solution:

Base.html:

```
<html>

<head>

  <link rel="stylesheet" href="static/css/main.css">

  {% block head %}

  {% endblock %}

</head>

<body>

  {% block body %}

  {% endblock %}

</body>

</html>
```

Main.css:

```
.login {

  width: 60%;

  border-radius: 1rem;

  background: gray;

  padding: 10px;
```

```

margin: auto;

text-align: center;

font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
}

.back{

background-color: black;

}

.sub{

background-color: black;

color: white;

border-radius: 1rem;

}

.box{

border-radius: 1rem;

background-color: black;

color: white;

}

```

Dashboard.html:

```

{% extends 'base.html' %}

{% block head %}

<title>Login</title>

{% endblock %}

{% block body %}

<br><br><br><br><br>  <br><br><br><br><br>

<div class="login">

  <h1>

    Welcome to dashboard.. {{ msg }}

  </h1>

  <hr>

</div>

{% endblock %}

```

Login.html:

```
{% extends 'base.html' %}

{% block head %}

<title>Login</title>

{% endblock %}

{% block body %}

<br><br><br><br><br><br><br>

<div class="login">

    <h1>

        Login

    </h1>

    <hr>

    <form action="/login" method="POST">

        <br>

        username: <input type="text" class="box" name="username" id="username"><br><br>

        Password: <input type="password" class="box" name="passwd" id="passwd"><br><br>

        <input type="submit" class="sub" value="Sign in">

    </form>

    Don't have account? <a href="/signup">Sign up</a>

</div>

{% endblock %}
```

Signup.html:

```
{% extends 'base.html' %}

{% block head %}

<title>Login</title>

{% endblock %}

{% block body %}

<br><br><br><br><br> <br><br>

<div class="login">

    <h1>

        Sign Up

    </h1>

    <hr>
```

```

</h1>

<hr>

<form action="/signup" method="POST">

    <br>

    username: <input type="text" class="box" name="username" id="username"><br><br>

    email: <input type="text" class="box" name="email" id="eamil"><br><br>

    Password: <input type="password" class="box" name="passwd" id="passwd"><br><br>

    <input type="submit" class="sub" value="Sign up"><br>

</form>

    Already have an account? <a href="/login">Login</a>

</div>

{% endblock %}

```

App.py:

```

from flask import Flask, render_template, request, session, redirect, url_for

import ibm_db

import re

import ibm_db_dbi

app = Flask(__name__)

app.secret_key = 'a'

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=xyn12614;PWD=oXjOuam0AOYeLVKq", "", "")

@app.route('/login', methods=['POST', "GET"])

def login():

    global userid

    msg = ""

    if request.method == 'POST':

        username = request.form['username']

```

```

password = request.form['passwd']

sql = "select * from users where username = ? and password = ?"

stmt = ibm_db.prepare(conn, sql)

ibm_db.bind_param(stmt, 1, username)

ibm_db.bind_param(stmt, 2, password)

ibm_db.execute(stmt)

account = ibm_db.fetch_assoc(stmt)

print(account)

if account:

    session['Loggedin'] = True

    session['id'] = account['USERNAME']

    userid = account['USERNAME']

    session['username'] = account['USERNAME']

    msg = 'logged in successfully'

    return render_template('dashboard.html', msg=msg)

else:

    msg = 'Incorrect user credentials'

    return render_template('dashboard.html', msg=msg)

else:

    return render_template('login.html')

```

```
@app.route('/signup', methods=["POST", "GET"])
```

```
def signup():
```

```

    if request.method == "POST":

        username = request.form['username']

        email = request.form['email']

        password = request.form['passwd']

        sql = "select * from users where username = ?"

        stmt = ibm_db.prepare(conn, sql)

        ibm_db.bind_param(stmt, 1, username)

        ibm_db.execute(stmt)

```

```

account = ibm_db.fetch_assoc(stmt)

print(account)

if account:

    msg = 'Acccount already exists'

elif not re.match(r'^@]+@[^@]+\.[^@]+', email):

    msg = 'invalid email'

elif not re.match(r'[A-Za-z0-9]+', username):

    msg = 'name must contain charectors and numbers'

else:

    insert_sql = "insert into users values(?,?,?)"

    prep_stmt = ibm_db.prepare(conn, insert_sql)

    ibm_db.bind_param(prepare_stmt, 1, username)

    ibm_db.bind_param(prepare_stmt, 2, email)

    ibm_db.bind_param(prepare_stmt, 3, password)

    ibm_db.execute(prepare_stmt)

    print("successs")

    msg = "succesfully signed up"

    return render_template('dashboard.html', msg=msg)

else:

    return render_template('signup.html')

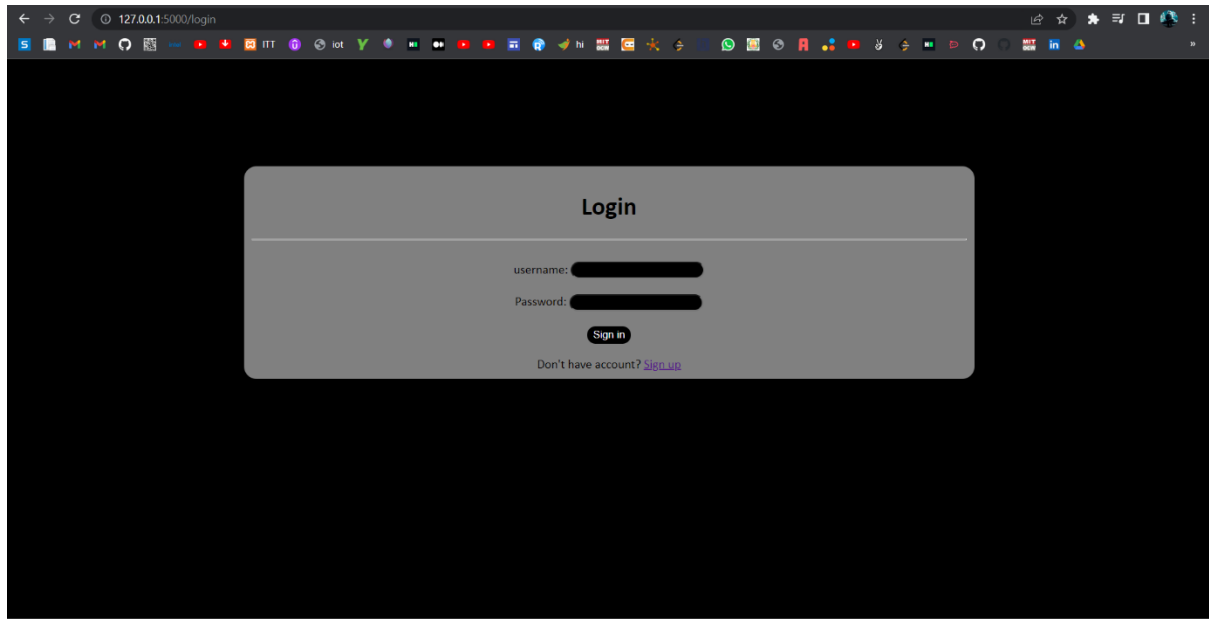
if __name__ == '__main__':

    app.run(debug=False)

```

Output:

Login:



127.0.0.1:5000/login

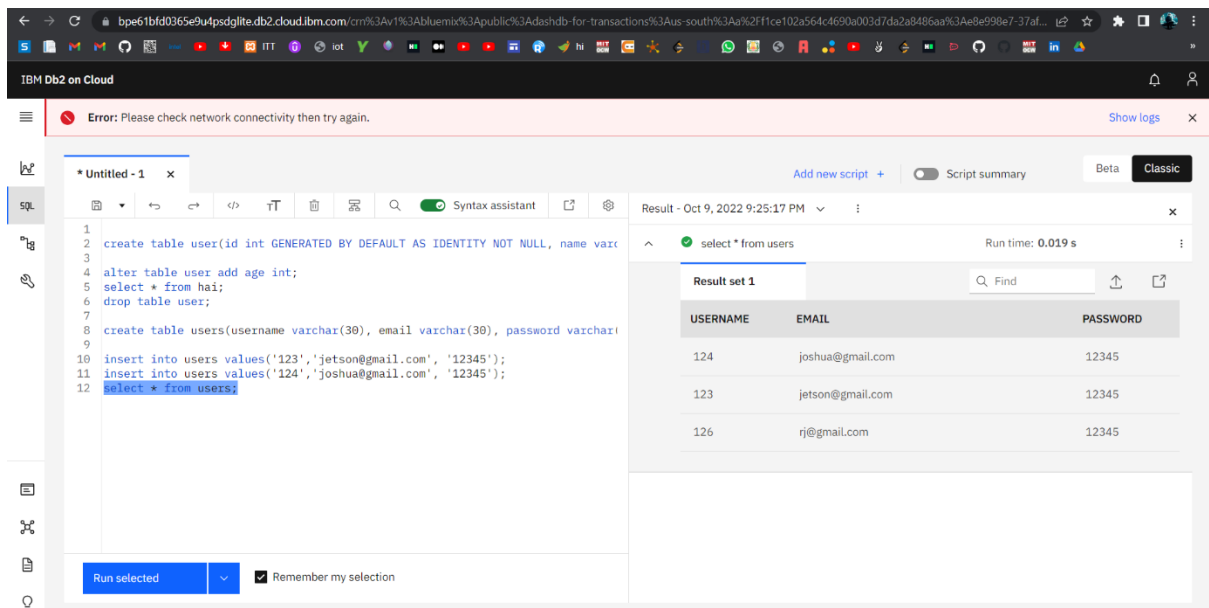
Login

username:

Password:

[Sign in](#)

Don't have account? [Sign up](#)



IBM Db2 on Cloud

Error: Please check network connectivity then try again. [Show logs](#)

*Untitled - 1

SQL

```
1 create table user(id int GENERATED BY DEFAULT AS IDENTITY NOT NULL, name varchar(30));
2
3 alter table user add age int;
4 select * from hai;
5 drop table user;
6
7 create table users(username varchar(30), email varchar(30), password varchar(30));
8
9 insert into users values('123','jetson@gmail.com', '12345');
10 insert into users values('124','joshua@gmail.com', '12345');
11
12 select * from users;
```

Result - Oct 9, 2022 9:25:17 PM

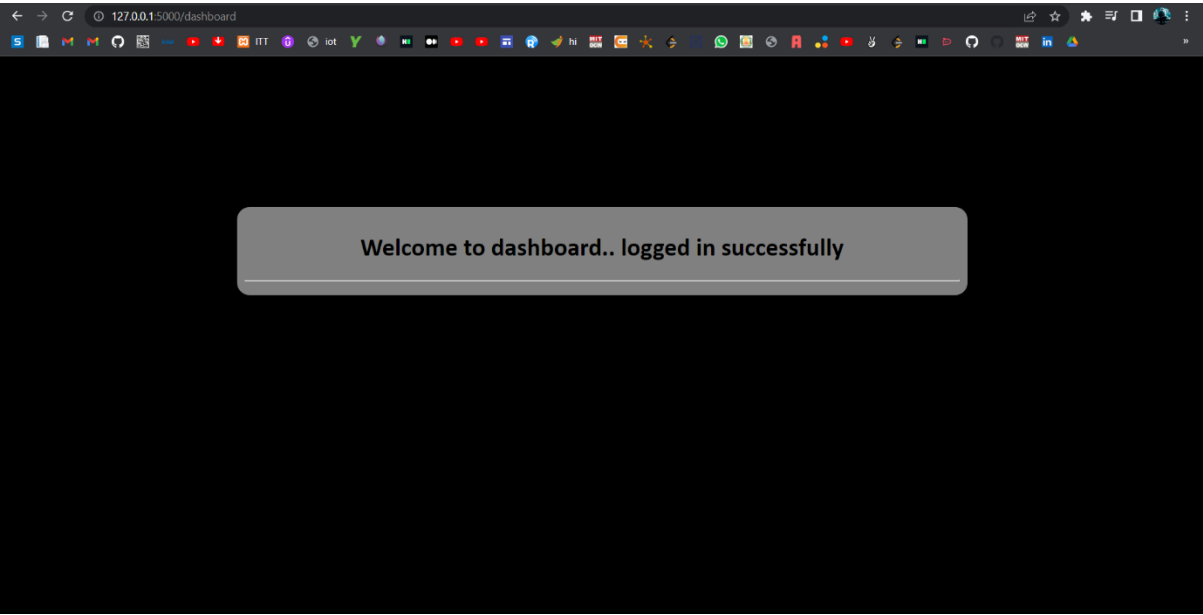
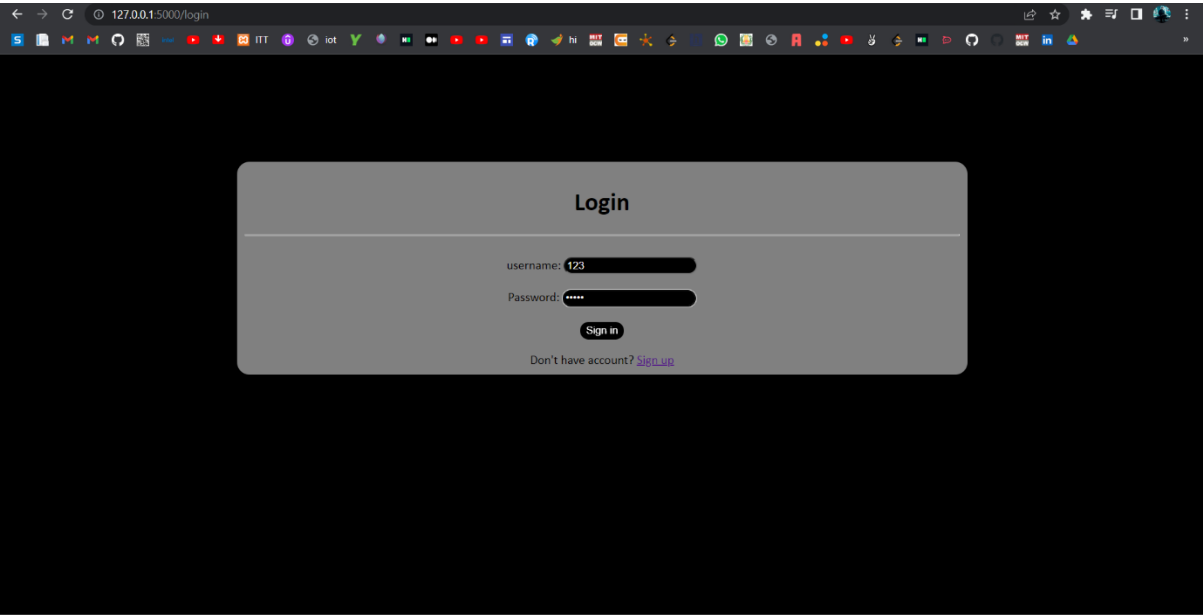
select * from users Run time: 0.019 s

Result set 1

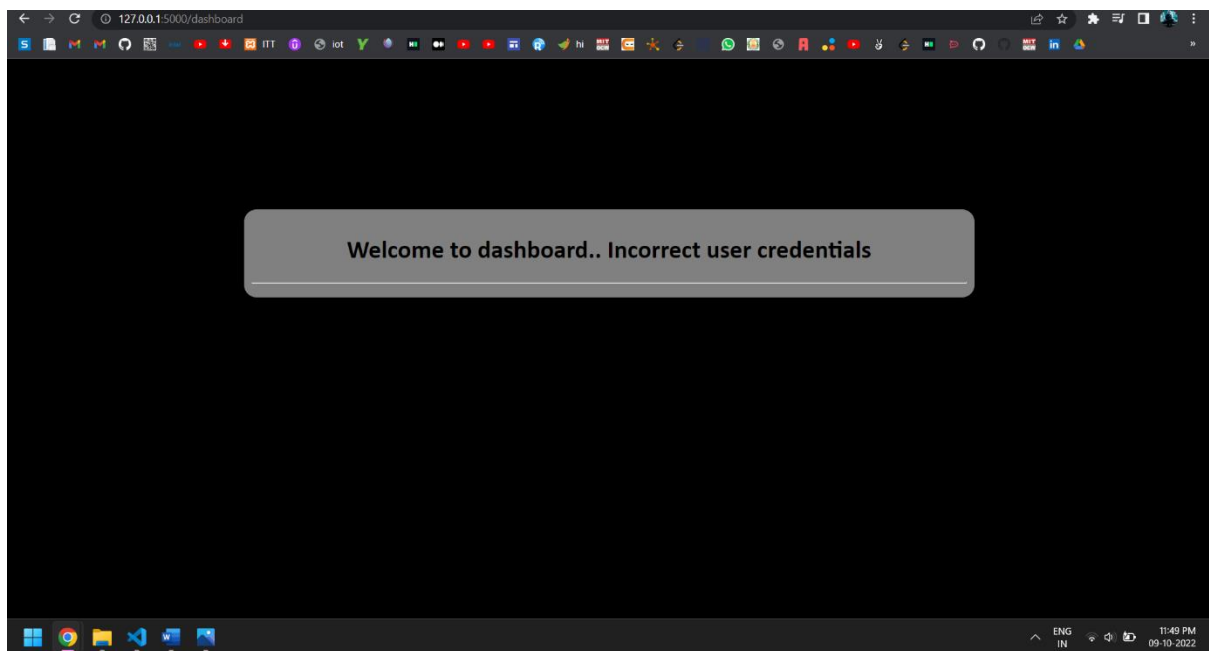
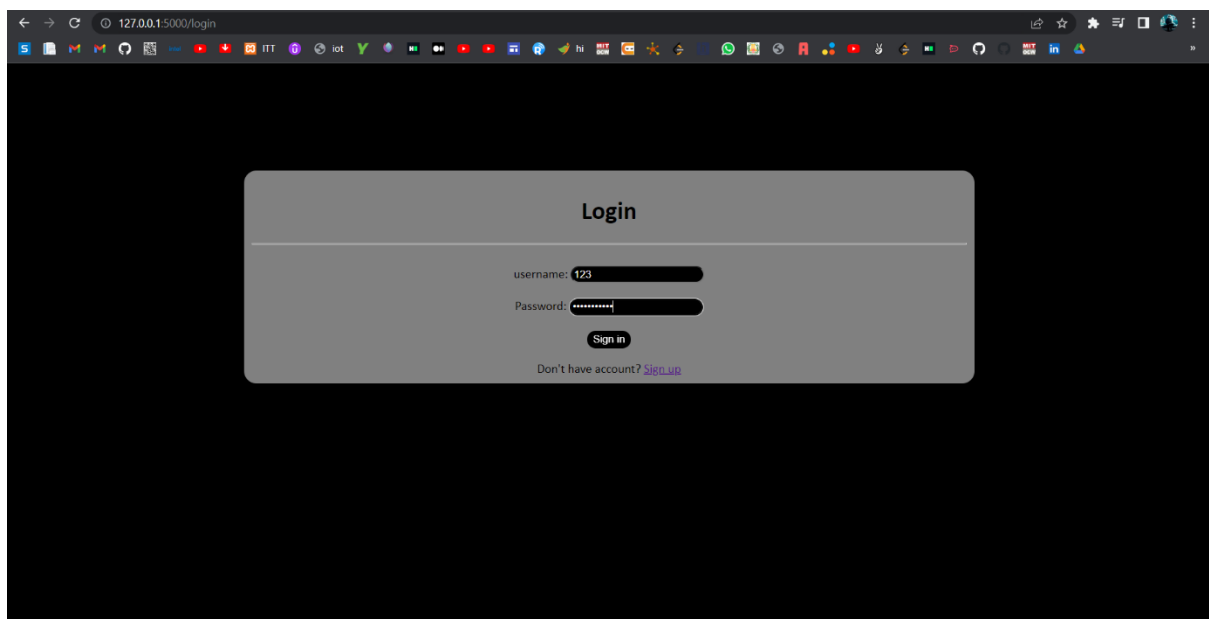
USERNAME	EMAIL	PASSWORD
124	joshua@gmail.com	12345
123	jetson@gmail.com	12345
126	rj@gmail.com	12345

Run selected ☐ Remember my selection

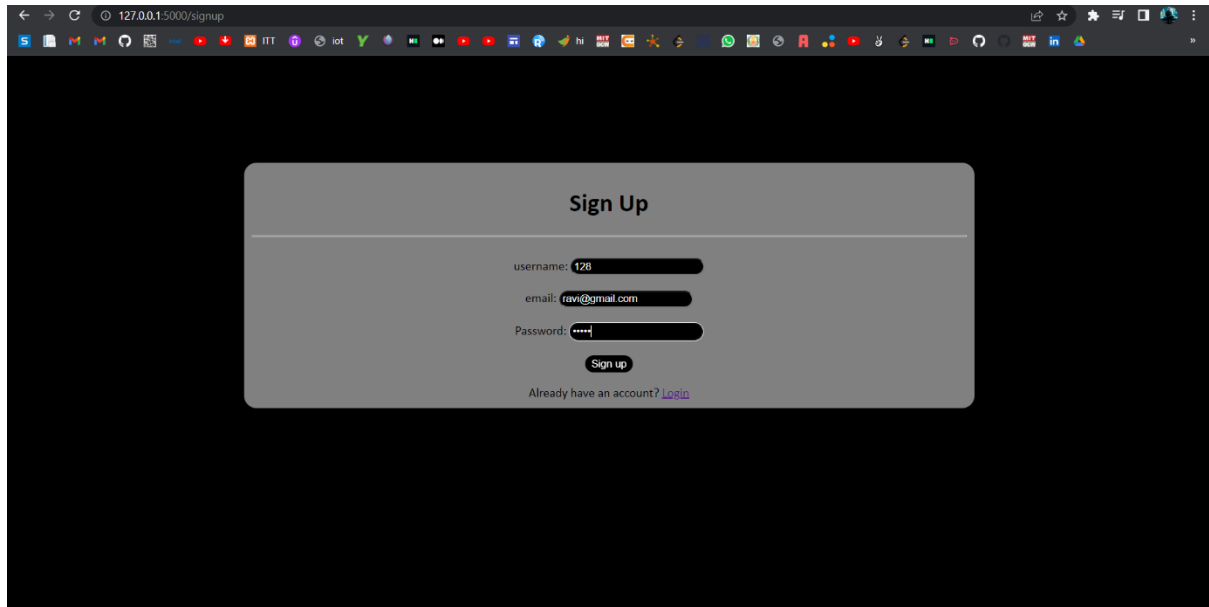
With correct credentials:



With wrong credentials:



Sign up:



Sign Up

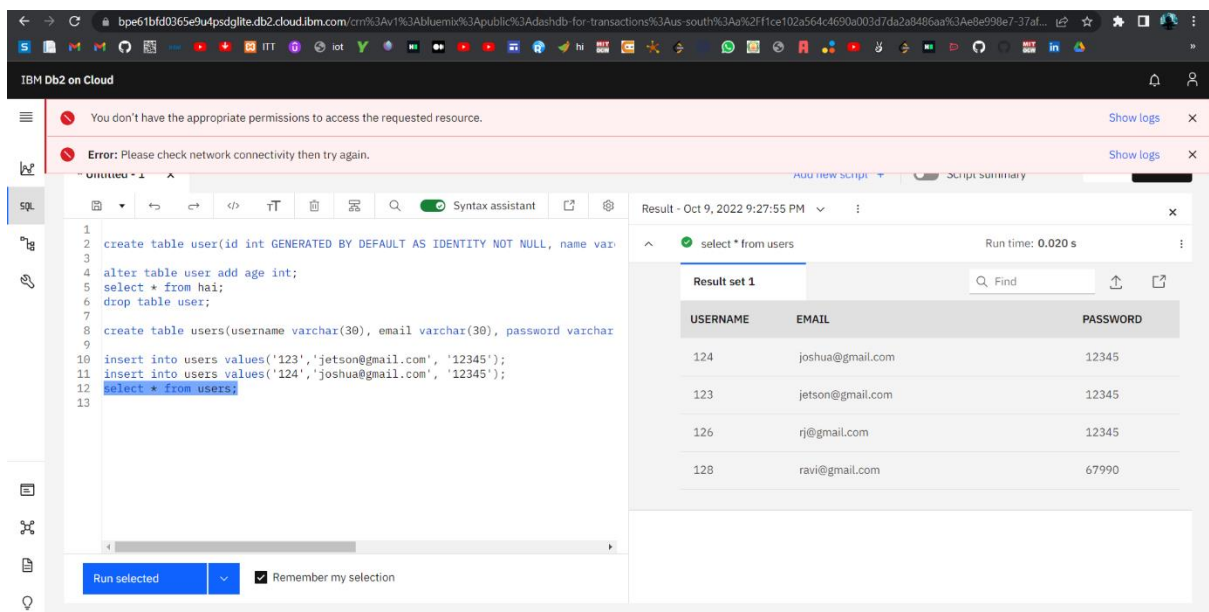
username: 128

email: ravi@gmail.com

Password:

Sign up

Already have an account? [Login](#)



IBM Db2 on Cloud

You don't have the appropriate permissions to access the requested resource. [Show logs](#)

Error: Please check network connectivity then try again. [Show logs](#)

SQL

```
1 create table user(id int GENERATED BY DEFAULT AS IDENTITY NOT NULL, name var
2
3
4 alter table user add age int;
5 select * from hai;
6 drop table user;
7
8 create table users(username varchar(30), email varchar(30), password varchar
9
10 insert into users values('123','jetson@gmail.com', '12345');
11 insert into users values('124','joshua@gmail.com', '12345');
12 select * from users;
13
```

Result - Oct 9, 2022 9:27:55 PM

select * from users Run time: 0.020 s

Result set 1

USERNAME	EMAIL	PASSWORD
124	joshua@gmail.com	12345
123	jetson@gmail.com	12345
126	rj@gmail.com	12345
128	ravi@gmail.com	67990

Run selected Remember my selection