

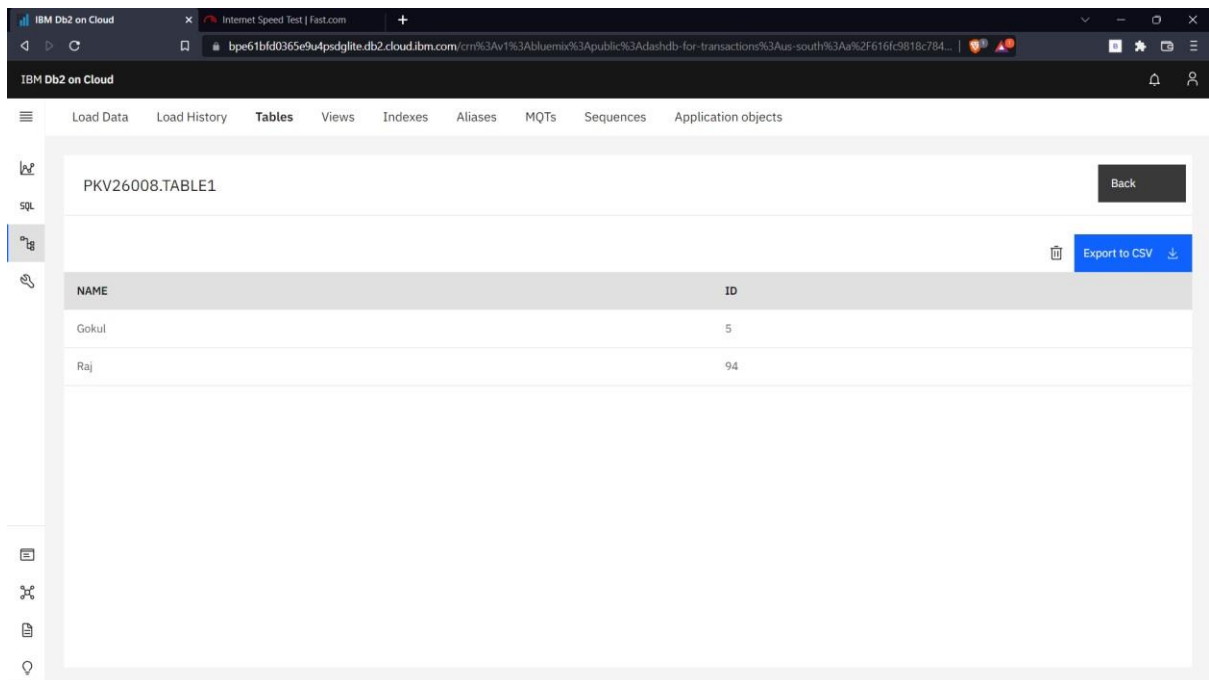
ASSIGNMENT – 2

| | |
|---------------|-------------------------------------|
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| Team ID | PNT2022TMID19415 |
| Project Title | SKILL / JOB RECOMMENDER APPLICATION |

1. Create 5 tables in ibm db2 and insert data by using insert query. &
2. Perform UPDATE, DELETE queries in 5 tables:

TABLE NAMES : Table1 , Table2 , Table3 ,Table4 ,Table5

Table 1 :



The screenshot shows the IBM Db2 Cloud console interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, displaying 'PKV26008.TABLE1'. A 'Back' button is in the top right. Below the table name, there is an 'Export to CSV' button with a download icon. The table structure is shown with two columns: 'NAME' and 'ID'. The data rows are:

| NAME | ID |
|-------|----|
| Gokul | 5 |
| Raj | 94 |

QUERY :

```
INSERT INTO table1 (Name, ID)
```

```
VALUES ('Ram', '45');
```

```
INSERT INTO table1 (Name, ID)
```

```
VALUES ('Gokul', '05');
```

```
INSERT INTO table1 (Name, ID)
```

```
VALUES ('Raj', '4');
```

```
UPDATE table1
```

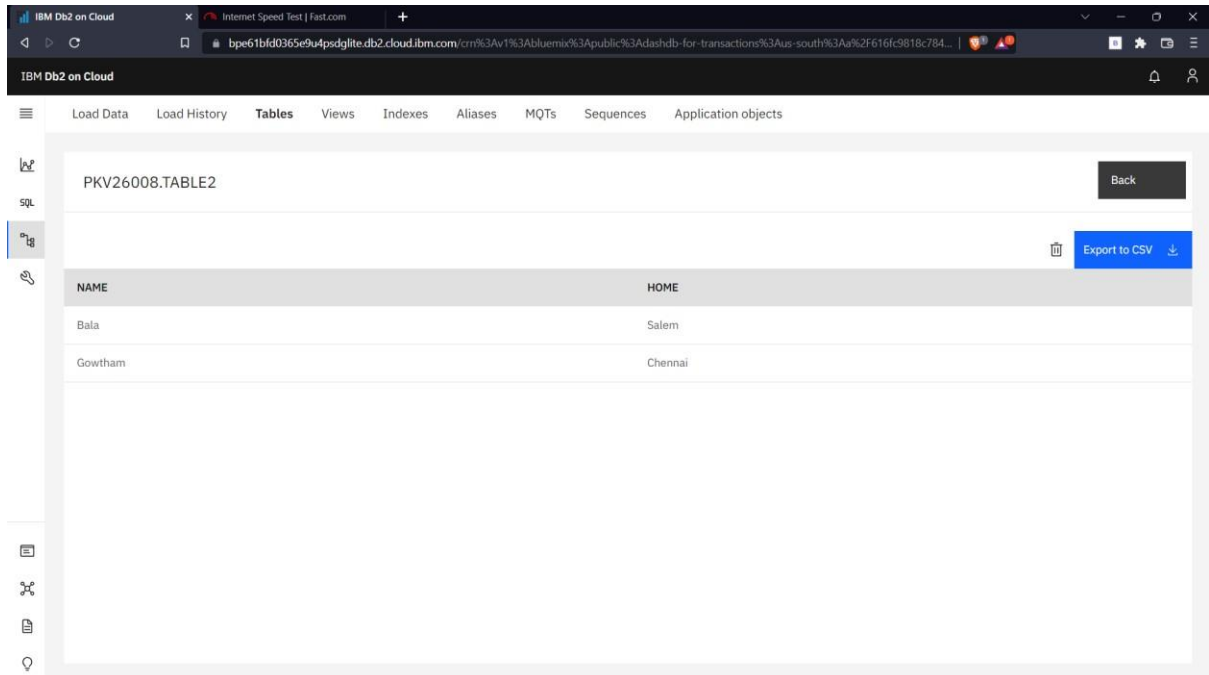
```
SET ID = '94'
```

```
WHERE Name = 'Raj';
```

```
DELETE FROM table1
```

```
WHERE ID = '45';
```

Table 2 :



The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, displaying 'PKV26008.TABLE2'. A 'Back' button is in the top right. Below the table name, there is an 'Export to CSV' button. The table has two columns: 'NAME' and 'HOME'. It contains two rows of data: 'Bala' with 'Salem' as the home, and 'Gowtham' with 'Chennai' as the home. A left sidebar contains icons for various database functions.

| NAME | HOME |
|---------|---------|
| Bala | Salem |
| Gowtham | Chennai |

QUERY :

```
INSERT INTO table2 (Name, Home)
```

```
VALUES ('Bala', 'Erode');
```

```
INSERT INTO table2 (Name, Home)
```

```
VALUES ('Gowtham', 'Chennai');
```

```
INSERT INTO table2 (Name, Home)
```

```
VALUES ('Ramesh', 'Coimbatore');
```

```
UPDATE table2
```

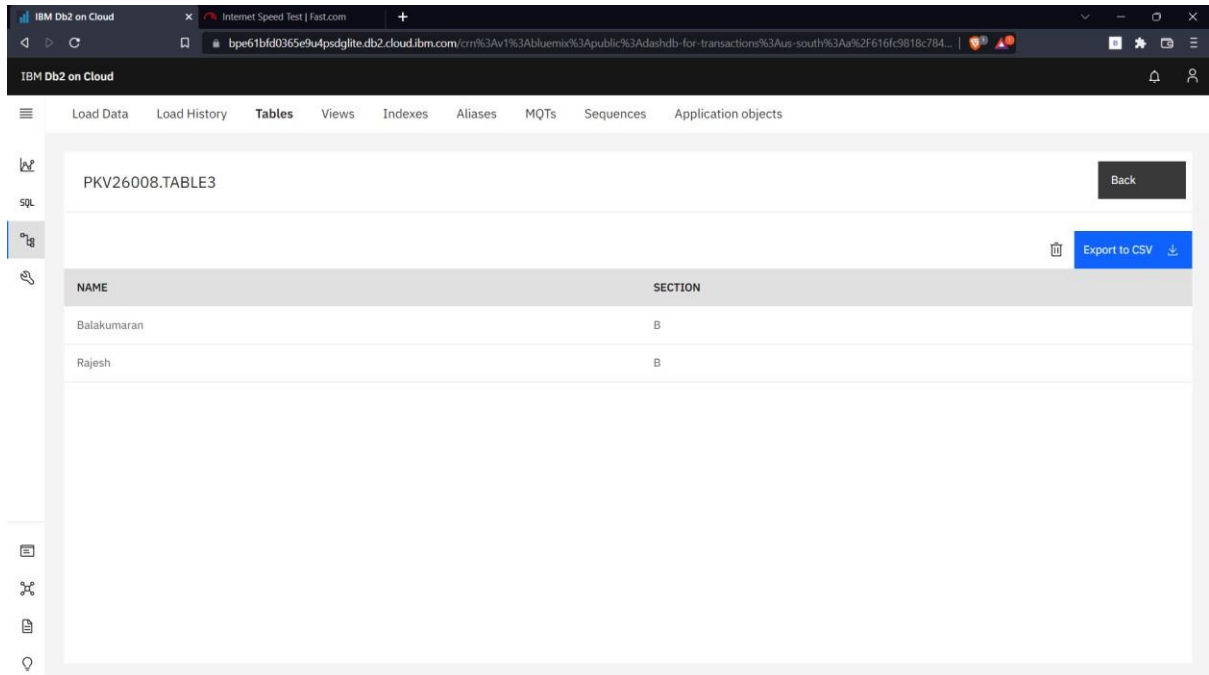
```
SET Home = 'Salem'
```

```
WHERE Name = 'Bala';
```

```
DELETE FROM table2
```

```
WHERE Home = 'Coimbatore';
```

Table 3 :



IBM Db2 on Cloud

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

PKV26008.TABLE3

Back

Export to CSV

| NAME | SECTION |
|-------------|---------|
| Balakumaran | B |
| Rajesh | B |

QUERY :

```
INSERT INTO table3 (Name, Section)
```

```
VALUES ('Balakumaran', 'A');
```

```
INSERT INTO table3 (Name, Section)
```

```
VALUES ('Gowthaman', 'A');
```

```
INSERT INTO table3 (Name, Section)
```

```
VALUES ('Rajesh', 'B');
```

```
UPDATE table3
```

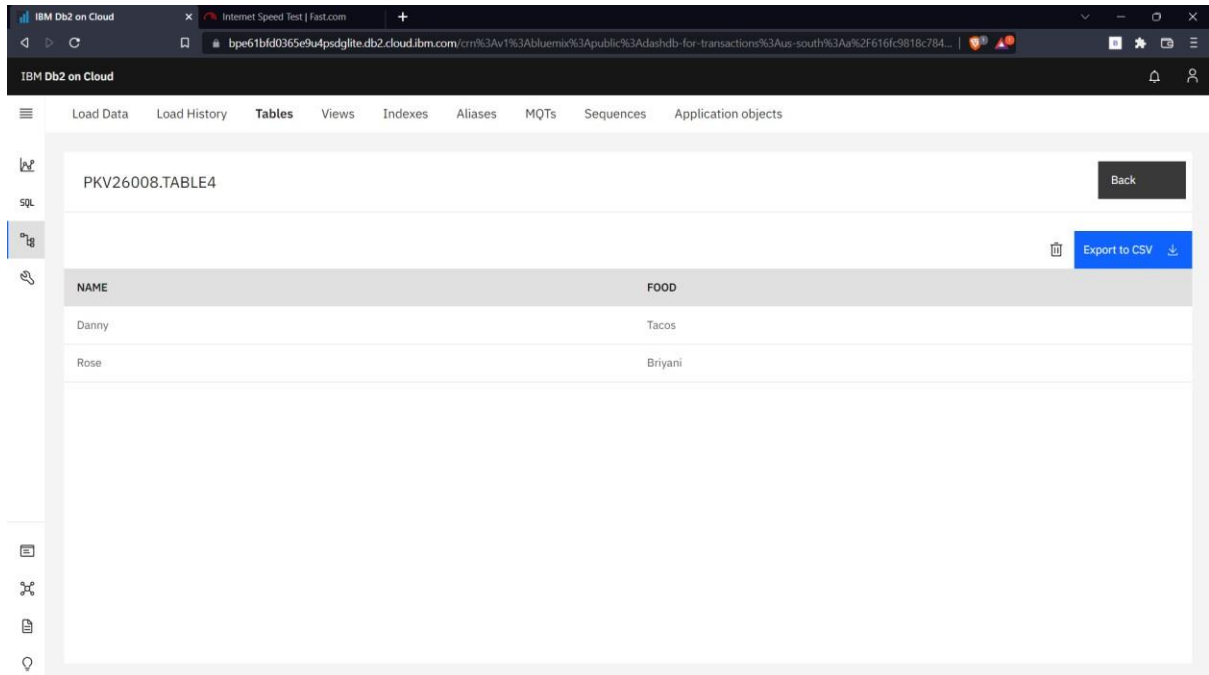
```
SET Section = 'B'
```

```
WHERE Name = 'Balakumaran';
```

```
DELETE FROM table3
```

```
WHERE Section = 'A';
```

Table 4 :



The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, displaying 'PKV26008.TABLE4'. A 'Back' button is in the top right. Below the table name, there is an 'Export to CSV' button. The table itself has two columns: 'NAME' and 'FOOD'. It contains two data rows: one with 'Danny' and 'Tacos', and another with 'Rose' and 'Briyani'. A left sidebar contains icons for various database functions.

| NAME | FOOD |
|-------|---------|
| Danny | Tacos |
| Rose | Briyani |

QUERY :

```
INSERT INTO table4 (Name, Food)
```

```
VALUES ('Danny', 'Burger');
```

```
INSERT INTO table4 (Name, Food)
```

```
VALUES ('Gowthaman', 'currymeals');
```

```
INSERT INTO table4 (Name, Food)
```

```
VALUES ('Rose', 'Briyani');
```

```
UPDATE table4
```

```
SET Food = 'Tacos'
```

```
WHERE Name = 'Danny';
```

```
DELETE FROM table4
```

```
WHERE Food = 'currymeals';
```

Table 5 :

| NAME | MARKS |
|---------|-------|
| Danniel | 100 |
| Georgia | 93 |

QUERY :

```
INSERT INTO table5 (Name, Marks)
```

```
VALUES ('Danniel', '98');
```

```
INSERT INTO table5 (Name, Marks)
```

```
VALUES ('Georgia', '93');
```

```
INSERT INTO table5 (Name, Marks)
```

```
VALUES ('Haseni', '97');
```

```
UPDATE table5
```

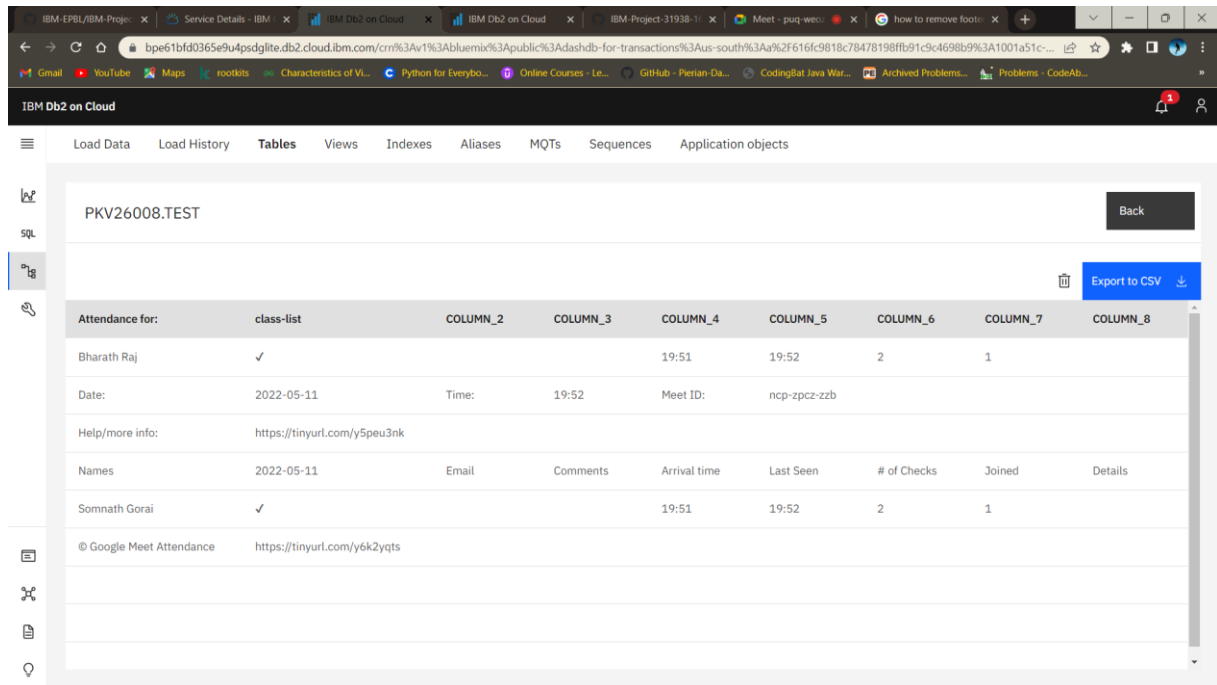
```
SET Marks = '100'
```

```
WHERE Name = 'Danniel';
```

```
DELETE FROM table5
```

```
WHERE Marks = '97';
```

3. Load excel comma seperated file to db2.



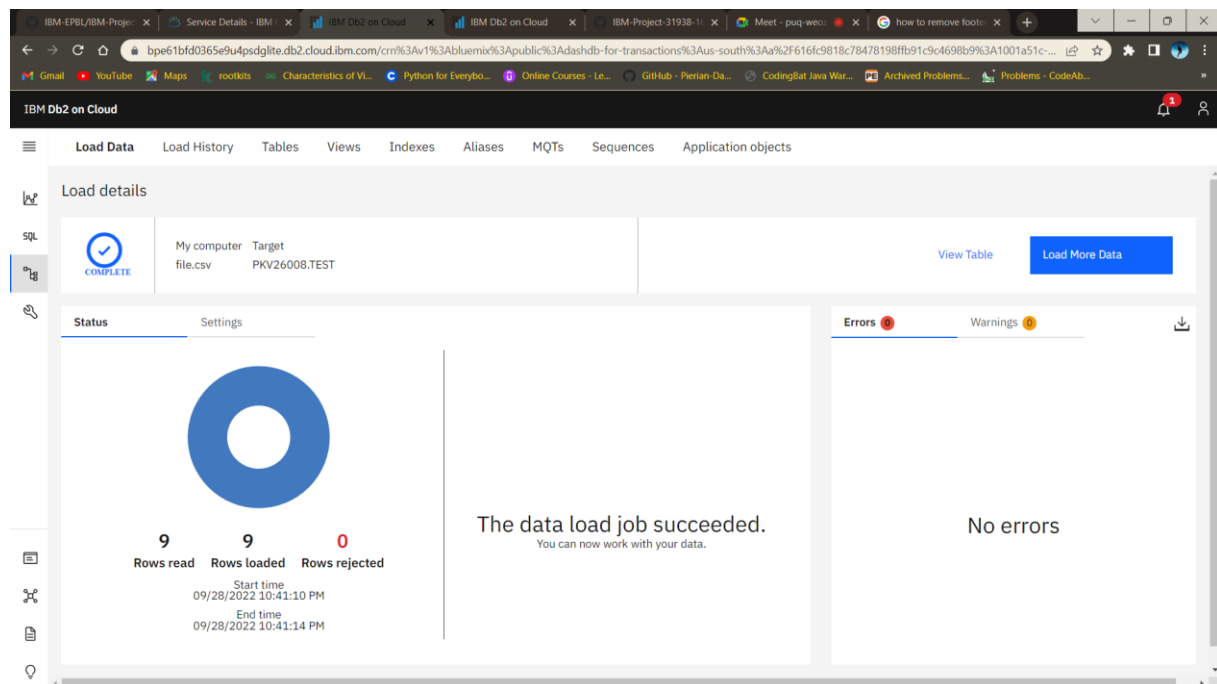
IBM Db2 on Cloud

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

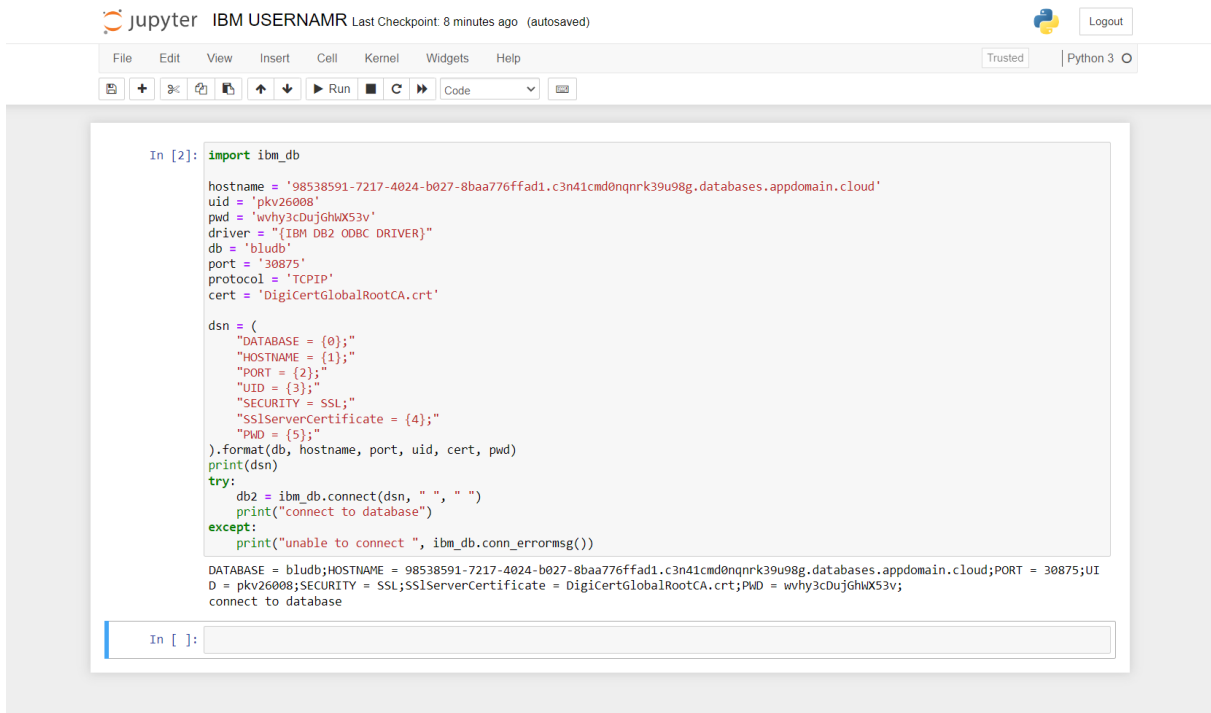
PKV26008.TEST

Export to CSV

| Attendance for: | class-list | COLUMN_2 | COLUMN_3 | COLUMN_4 | COLUMN_5 | COLUMN_6 | COLUMN_7 | COLUMN_8 |
|--------------------------|------------------------------|----------|----------|--------------|--------------|-------------|----------|----------|
| Bharath Raj | ✓ | | | 19:51 | 19:52 | 2 | 1 | |
| Date: | 2022-05-11 | Time: | 19:52 | Meet ID: | ncp-zpcz-zzb | | | |
| Help/more info: | https://tinyurl.com/y5peu3nk | | | | | | | |
| Names | 2022-05-11 | Email | Comments | Arrival time | Last Seen | # of Checks | Joined | Details |
| Somnath Gorai | ✓ | | | 19:51 | 19:52 | 2 | 1 | |
| © Google Meet Attendance | https://tinyurl.com/y6k2yqts | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



4. Connect python to db2.



The image shows a Jupyter Notebook interface with a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar. The notebook title is 'jupyter IBM USERNAMR' with a status bar indicating 'Last Checkpoint: 8 minutes ago (autosaved)'. A 'Logout' button is in the top right. The code cell contains a Python script to connect to an IBM DB2 database using the ibm_db module. The script defines variables for hostname, uid, pwd, driver, db, port, protocol, cert, and dsn, then attempts to connect and print the connection details. The output shows the connection parameters and a successful connection message.

```
In [2]: import ibm_db

hostname = '98538591-7217-4024-b027-8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud'
uid = 'pkv26008'
pwd = 'wvhy3cDujGhW53v'
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 = wvhy3cDujGhW53v;
connect to database
```

In []:

CODE :

```
import ibm_db
```

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

```
uid = 'pkv26008'
```

```
pwd = 'wvhy3cDujGhWX53v'
```

```
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;"
"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())
```