

# ASSIGNMENT NO 2

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PROJECT: NUTRITION ASSISTANT APPLICATION

PROJECT ID: PNT2022TMID19500

1.CREATE 5 TABLES IN IBM db2 and insert data by using insert query.

## TABLE NO 1

### QUERY:

INSERT INTO TABLENO1

VALUES(18,'Ram',88000,'ADMIN'),

(56,'SEETA',9000,'HELPDESK'),

(10,'MRUNAL',56000,'HR'),

(16,'PANDYA',78000,'DEVOP'),

(50,'LAXMI',88000,'TESTER');

### TABLE NO 1:

The screenshot displays the IBM Db2 on Cloud web interface. The top section shows a SQL script editor with the following query:

```
1 INSERT INTO TABLENO1
2 VALUES(18,'Ram',88000,'ADMIN'),
3 (56,'SEETA',9000,'HELPDESK'),
4 (10,'MRUNAL',56000,'HR'),
5 (16,'PANDYA',78000,'DEVOP'),
6 (50,'LAXMI',88000,'TESTER');
7
8
```

Below the script editor, a history table shows the execution results:

Script	Date	Status	Runtime
Untitled - 1	Sep 27, 2022 9:38:00 PM	✓ 1	0.007 s
INSERT INTO TABLENO1 VALUES(18,'Ram',88000,'ADMIN'), (56,'SEETA',9000,'HELP...		✓	0.007 s
Untitled - 1	Sep 27, 2022 9:31:01 PM	✓ 4	0.097 s
INSERT INTO table1 (Name,EMAIL,ID) VALUES ('Ram', 'CSE@GMAIL','6534')		✓	0.009 s
INSERT INTO table1 (Name,EMAIL,ID) VALUES ('Ramu', 'CSEinech@GMAIL','6536')		✓	0.019 s

The bottom section shows the table structure and data for GBJ21927.TABLENO1:

EMPID	ENAME	SALARY	JOB
10	MRUNAL	56000	HR
16	PANDYA	78000	DEVOP
18	Ram	88000	ADMIN
50	LAXMI	88000	TESTER
56	SEETA	9000	HELPDESK

## TABLE NO 2

### QUERY:

INSERT INTO TABLENO2

VALUES

('ASWIN', 12,89),

('SOMNATH',67,78),

('BHARATH',16,98),

('PRANESH', 54,67);

## TABLE NO 2:

The screenshot shows the IBM Db2 on Cloud console interface. On the left, the 'Data objects' panel displays a tree structure with 'FFX18144' as the database name, containing 'Tables' (TABLENO1), 'Views', 'MQTs', 'Aliases', and 'Nicknames'. The main editor area shows a SQL script in a file named 'Untitled - 2'. The script is as follows:

```
1 INSERT INTO TABLENO2
2 VALUES
3 ('ASWIN', 12,89),
4 ('SOMNATH',67,78),
5 ('BHARATH',16,98),
6 ('PRANESH', 54,67);
7
```

Below the script editor, the 'History' tab is active, showing a table of executed scripts:

Script	Date	Status	Runtime
Untitled - 2	Sep 28, 2022 10:27:41 AM	1	0.010 s
INSERT INTO TABLENO2 VALUES ('ASWIN', 12,89), ('SOMNATH',...			0.010 s

The screenshot shows the IBM Db2 on Cloud console displaying the results of the SQL query. The 'Tables' tab is selected, and the table 'FFX18144.TABLENO2' is shown. The results are displayed in a table with the following columns: NAME, ROLLNO, and PERCENTAGE.

NAME	ROLLNO	PERCENTAGE
ASWIN	12	89
BHARATH	16	98
PRANESH	54	67
SOMNATH	67	78

### TABLE NO 3

#### QUERY:

INSERT INTO TABLENO3

VALUES

(4551,'SmartPhone','Nishanth','Deliverd'),

(6778,'laptop','bharath','NotDeliverd'),

(4545,'headphone','pranesh','Deliverd'),

(7896,'smartwatch','Ranjitha','NotDeliverd'),

(1227,'mouse','nithya','Deliverd'),

(4778,'SmartPhone','saran','Deliverd');

#### TABLE NO 3:

The screenshot shows the IBM Db2 on Cloud console interface. On the left, the 'Data objects' sidebar lists the database 'FFX18144' and its tables, including 'TABLENO3'. The main editor area displays a SQL script in a multi-tabbed window. The script is as follows:

```
1 INSERT INTO TABLENO3
2 VALUES
3 (4551,'SmartPhone','Nishanth','Deliverd'),
4 (6778,'laptop','bharath','NotDeliverd'),
5 (4545,'headphone','pranesh','Deliverd'),
6 (7896,'smartwatch','Ranjitha','NotDeliverd'),
7 (1227,'mouse','nithya','Deliverd'),
8 (4778,'SmartPhone','saran','Deliverd');
```

Below the script editor, the 'History' tab shows a table of executed queries:

Script	Date	Status	Runtime
Untitled - 3	Sep 28, 2022 10:57:43 AM	1	0.008 s
INSERT INTO TABLENO3 VALUES (4551,'SmartPhone','Nishanth'...			0.008 s

The screenshot shows the IBM Db2 on Cloud console displaying the data in the 'TABLENO3' table. The table has four columns: 'PRODUCT ID', 'PRODUCT', 'CUSTOMER NAME', and 'DELIVERY STATUS'. The data is as follows:

PRODUCT ID	PRODUCT	CUSTOMER NAME	DELIVERY STATUS
1227	mouse	nithya	Deliverd
4545	headphone	pranesh	Deliverd
4551	SmartPhone	Nishanth	Deliverd
4778	SmartPhone	saran	Deliverd
6778	laptop	bharath	NotDeliverd
7896	smartwatch	Ranjitha	NotDeliverd

## TABLE NO 4

### QUERY:

INSERT INTO TABLENO4

VALUES

(2345,'NITHYA',1.8,1.3),

(2345,'SARAN',1.5,1.6),

(2345,'BHARATH',5.2,5.0),

(2345,'NISHANTH',1.9,2.5),

(2345,'BHUVANESH',1.7,1.9);

### TABLE NO 4:

The screenshot shows the IBM Db2 on Cloud SQL editor interface. The left sidebar displays the 'Data objects' tree with 'TABLENO1' selected. The main editor area shows a script titled '\*Untitled - 1' with the following SQL code:

```
1 INSERT INTO TABLENO4
2 VALUES
3 (2345, 'NITHYA', 1.8, 1.3),
4 (2345, 'SARAN', 1.5, 1.6),
5 (2345, 'BHARATH', 5.2, 5.0),
6 (2345, 'NISHANTH', 1.9, 2.5),
7 (2345, 'BHUVANESH', 1.7, 1.9);
8
```

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

Script	Date	Status	Runtime
Untitled - 4	Sep 28, 2022 11:05:51 AM	1	0.009 s
INSERT INTO TABLENO4 VALUES (2345, 'NITHYA', 1.8, 1.3), (234...			0.009 s

The screenshot shows the IBM Db2 on Cloud SQL editor interface displaying the results of the INSERT query. The left sidebar shows the 'Data objects' tree with 'TABLENO1' selected. The main editor area shows the results of the query:

CUSTOMER ID	CUSTOMER NAME	LEFT EYE	RIGHT EYE
2345	NITHYA	1.8	1.3
2345	BHUVANESH	1.7	1.9
2345	NISHANTH	1.9	2.5
2345	BHARATH	5.2	5.0
2345	SARAN	1.5	1.6

## TABLE NO 5

### QUERY:

INSERT INTO TABLE5

VALUES

```
(1,'BHARATH',21,'6381856378','TIRUPUR'),  
(2,'NISHANTH',20,'9781538252','TIRUPUR'),  
(3,'SARAN',20,'7596325741','TIRUPUR'),  
(4,'VIJAY',21,'9687153678','TIRUPUR'),  
(5,'LOGESHWARAN',20,'8745656378','ERODE');
```

## TABLE NO 5

The screenshot shows the IBM Db2 on Cloud console interface. On the left, the 'Data objects' sidebar lists the database 'FFX18144' and its tables, including 'TABLENO1'. The main editor area displays an SQL script in a text area with line numbers 1 through 7. The script is an INSERT statement into 'TABLENO5' with five rows of data. Below the script, the 'History' tab is active, showing a table of executed scripts. The first entry is 'Untitled - 5' from 'Sep 28, 2022 11:28:04 AM', with a status of '1' and a runtime of '0.005 s'. The second entry shows the full SQL statement and its status as '1' with a runtime of '0.005 s'.

Script	Date	Status	Runtime
Untitled - 5	Sep 28, 2022 11:28:04 AM	1	0.005 s
INSERT INTO TABLENO5 VALUES (1,'BHARATH',21,'6381856378',...		1	0.005 s

The screenshot shows the IBM Db2 on Cloud console interface displaying the results of the SQL query. The 'Tables' tab is selected, and the table 'FFX18144.TABLE5' is shown. The results are displayed in a table with 5 rows and 5 columns: S.NO, NAME, AGE, PHONE, and ADDRESS. The data matches the values inserted in the previous query.

S.NO	NAME	AGE	PHONE	ADDRESS
1	BHARATH	21	6381856378	TIRUPUR
2	NISHANTH	20	9781538252	TIRUPUR
3	SARAN	20	7596325741	TIRUPUR
4	VIJAY	21	9687153678	TIRUPUR
5	LOGESHWARAN	20	8745656378	ERODE

## 2.PERFORM UPDATE , DELETE QUERIES in 5 tables:

### TABLE 1:

QUREY:

UPDATE TABLENO1

SET ENAME='SANJAY'

WHERE SALARY=88000;

DELETE FROM TABLENO1

WHERE ENAME='MRUNAL';

The screenshot shows the IBM Db2 on Cloud console interface. The left sidebar contains navigation icons for Data objects, My script, and SQL. The main area displays a script editor with the following SQL code:

```
1 UPDATE TABLENO1
2 SET ENAME='SANJAY'
3 WHERE SALARY=88000;
4
5 DELETE FROM TABLENO1
6 WHERE ENAME='MRUNAL';
```

Below the script editor, the 'History' tab is active, showing a table of executed scripts:

Script	Date	Status	Runtime
Untitled - 1	Sep 28, 2022 10:17:28 AM	✓ 1	0.009 s
DELETE FROM TABLENO1 WHERE ENAME='MRUNAL'		✓	0.009 s
Untitled - 1	Sep 28, 2022 10:04:37 AM	✓ 1	0.012 s
UPDATE TABLENO1 SET ENAME='SANJAY' WHERE SALARY=88000		✓	0.012 s

The screenshot shows the IBM Db2 on Cloud console interface, specifically the 'Tables' tab. The table 'GBJ21927.TABLENO1' is selected. The table structure and data are displayed as follows:

EMPID	ENAME	SALARY	JOB
16	PANDYA	78000	DEVOP
18	SANJAY	88000	ADMIN
50	SANJAY	88000	TESTER
56	SEETA	9000	HELPODESK

## TABLE 2:

QUERY:

UPDATE TABLENO2

SET NAME='BHUVANESH'

WHERE ROLLNO=12;

DELETE FROM TABLENO2

WHERE NAME = 'SOMNATH';

The screenshot shows the IBM Db2 on Cloud console interface. The top navigation bar includes tabs for WhatsApp, Home Page, RanjithalBMPython, Jupyter, Service Details, IBM Cloud, IBM Db2 on Cloud, and IBM-Project-31673-16602040. The main content area is divided into two sections: 'Data objects' on the left and 'My script' on the right. The 'Data objects' section shows a search bar and a list of objects, including 'FFX18144'. The 'My script' section contains a SQL script editor with the following code:

```
1 UPDATE TABLENO2
2 SET NAME='BHUVANESH'
3 WHERE ROLLNO=12;
4
5 DELETE FROM TABLENO2
6 WHERE NAME = 'SOMNATH';
7
8
```

Below the script editor is a 'History' table with the following columns: Script, Date, Status, and Runtime. The table contains three rows of execution history:

Script	Date	Status	Runtime
Untitled - 2	Oct 1, 2022 4:23:56 PM	1	0.008 s
UPDATE TABLENO2 SET NAME='BHUVANESH' WHERE ROLLNO=12			0.005 s
DELETE FROM TABLENO2 WHERE NAME = 'SOMNATH'			0.003 s

The screenshot shows the IBM Db2 on Cloud console interface, specifically the 'Tables' section. The top navigation bar includes tabs for WhatsApp, Home Page, RanjithalBMPython, Jupyter, Service Details, IBM Cloud, IBM Db2 on Cloud, and IBM-Project-31673-16602040. The main content area is divided into two sections: 'Load Data' on the left and 'Tables' on the right. The 'Tables' section shows a table named 'FFX18144.TABLENO2'. The table has three columns: NAME, ROLLNO, and PERCENTAGE. The table contains three rows of data:

NAME	ROLLNO	PERCENTAGE
BHARATH	16	98
BHUVANESH	12	89
PRANESH	54	67

### TABLE 3:

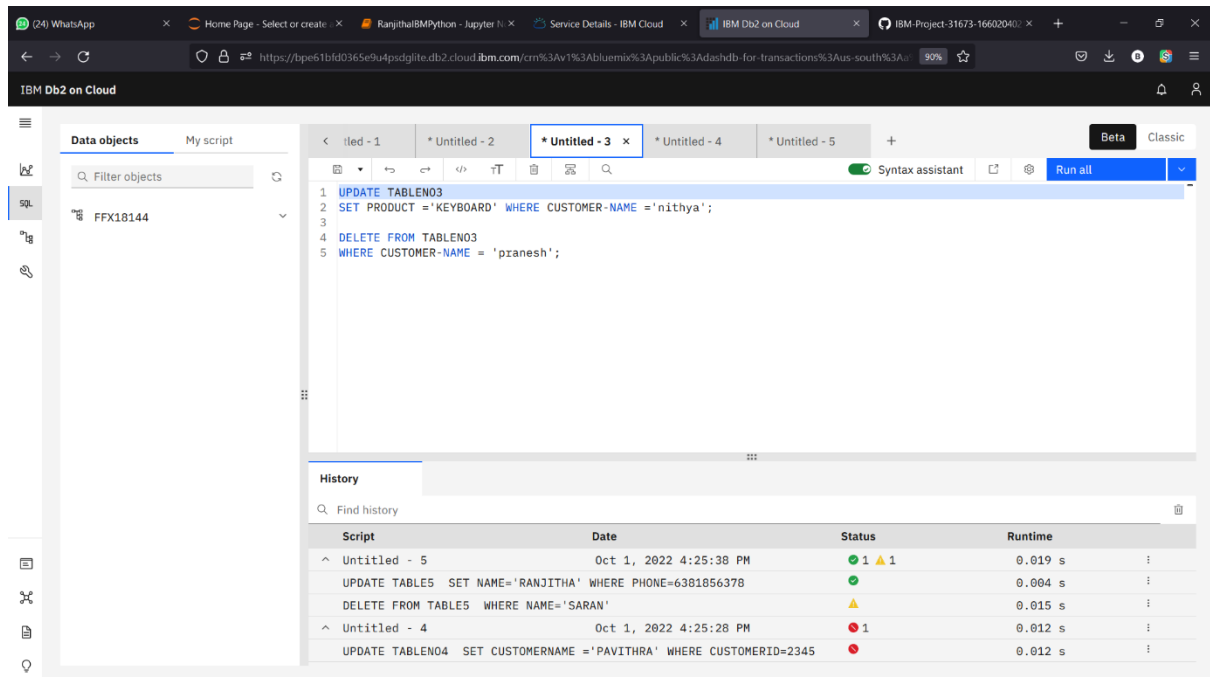
QUERY:

UPDATE TABLENO3

SET PRODUCT ='KEYBOARD' WHERE CUSTOMER-NAME ='nithya';

DELETE FROM TABLENO3

WHERE CUSTOMER-NAME = 'pranesh';

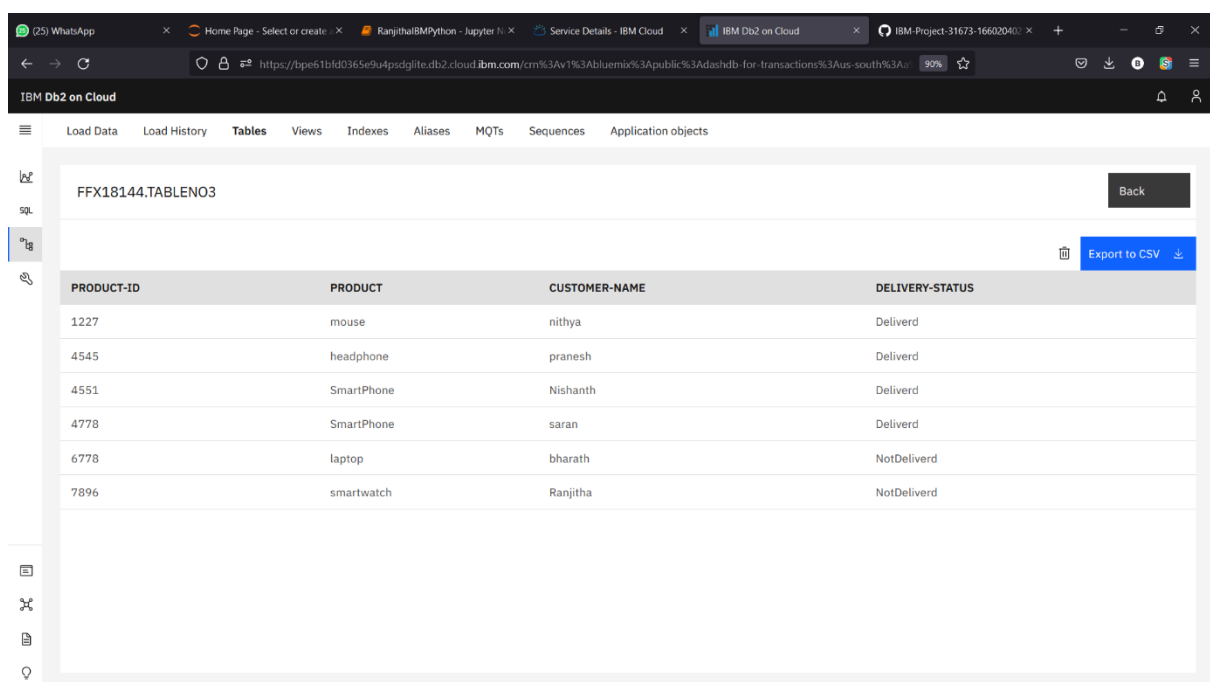


The screenshot shows the IBM Db2 on Cloud console. The SQL editor contains the following queries:

```
1 UPDATE TABLENO3
2 SET PRODUCT ='KEYBOARD' WHERE CUSTOMER-NAME ='nithya';
3
4 DELETE FROM TABLENO3
5 WHERE CUSTOMER-NAME = 'pranesh';
```

The History tab displays the execution of these queries:

Script	Date	Status	Runtime
Untitled - 5	Oct 1, 2022 4:25:38 PM	1	0.019 s
UPDATE TABLE5 SET NAME='RANJITHA' WHERE PHONE=6381856378			0.004 s
DELETE FROM TABLE5 WHERE NAME='SARAN'			0.015 s
Untitled - 4	Oct 1, 2022 4:25:28 PM	1	0.012 s
UPDATE TABLENO4 SET CUSTOMERNAME ='PAVITHRA' WHERE CUSTOMERID=2345			0.012 s



PRODUCT-ID	PRODUCT	CUSTOMER-NAME	DELIVERY-STATUS
1227	mouse	nithya	Deliverd
4545	headphone	pranesh	Deliverd
4551	SmartPhone	Nishanth	Deliverd
4778	SmartPhone	saran	Deliverd
6778	laptop	bharath	NotDeliverd
7896	smartwatch	Ranjitha	NotDeliverd



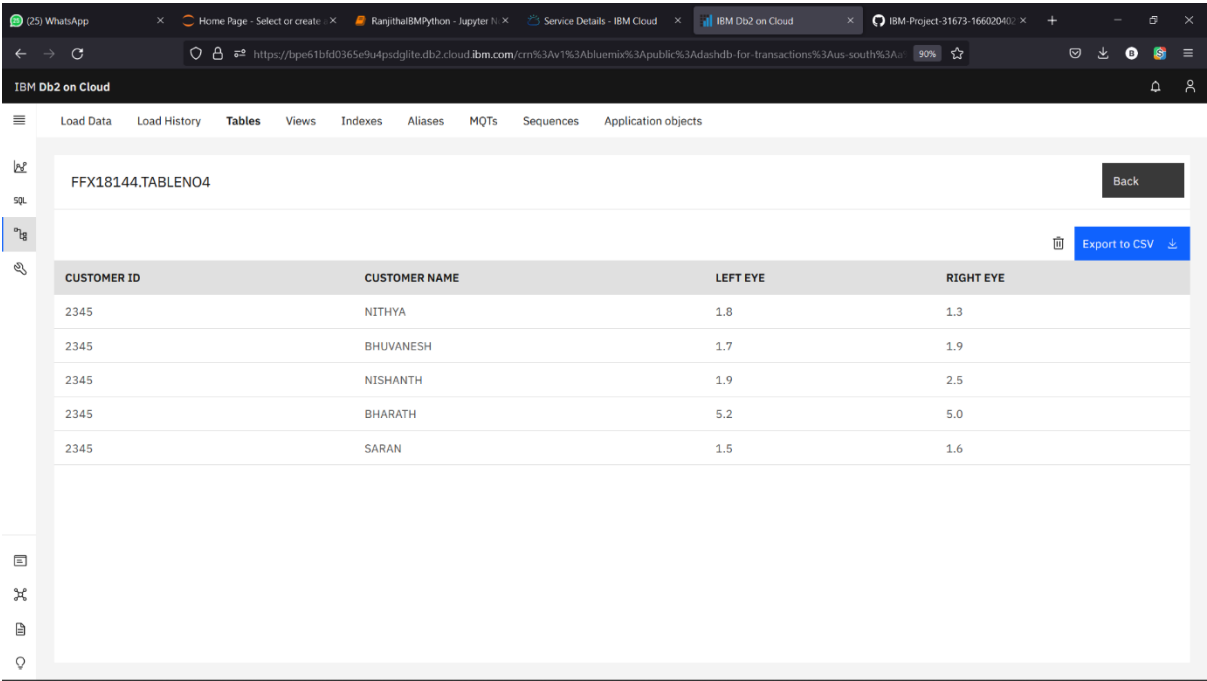
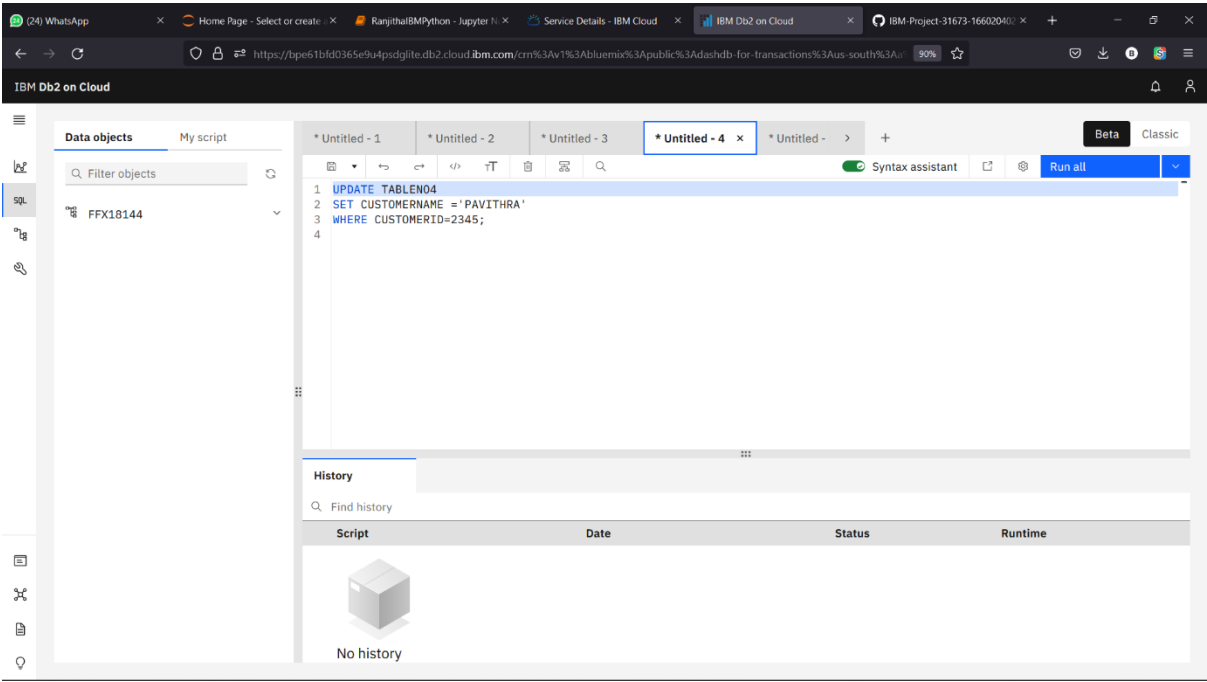
TABLE 4:

QUERY:

UPDATE TABLENO4

SET CUSTOMERNAME ='PAVITHRA'

WHERE CUSTOMERID=2345;



## TABLE 5:

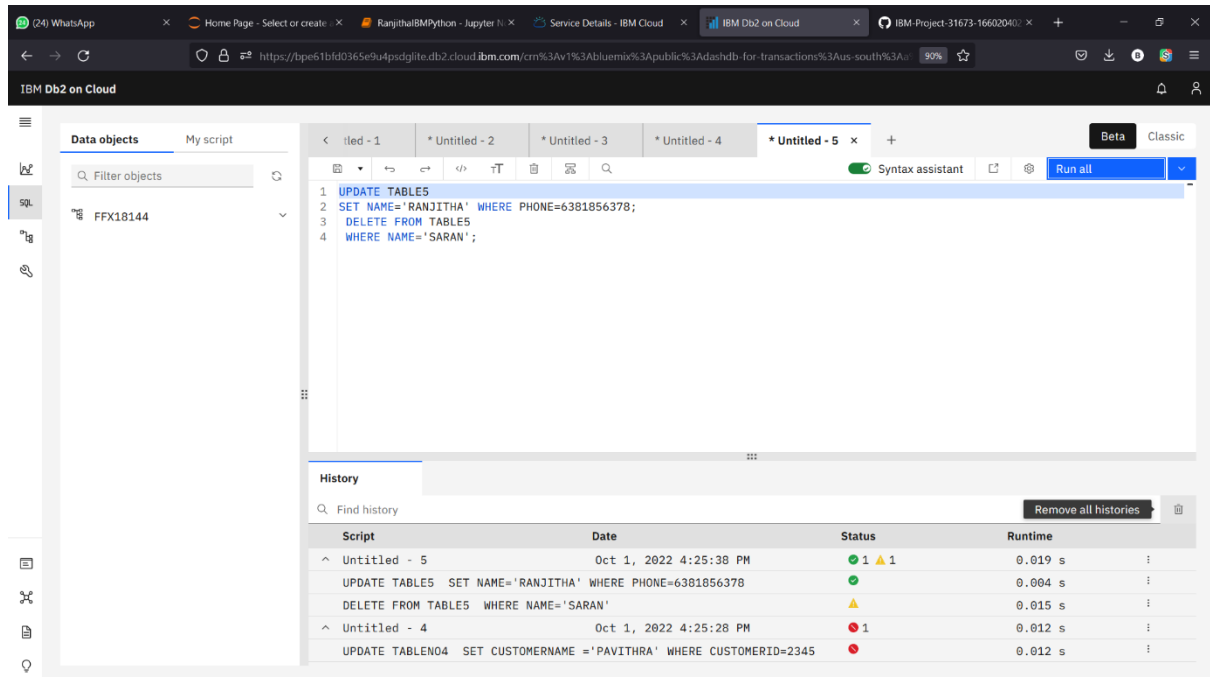
### QUERY:

UPDATE TABLE5

SET NAME='RANJITHA' WHERE PHONE=6381856378;

DELETE FROM TABLE5

WHERE NAME='SARAN';

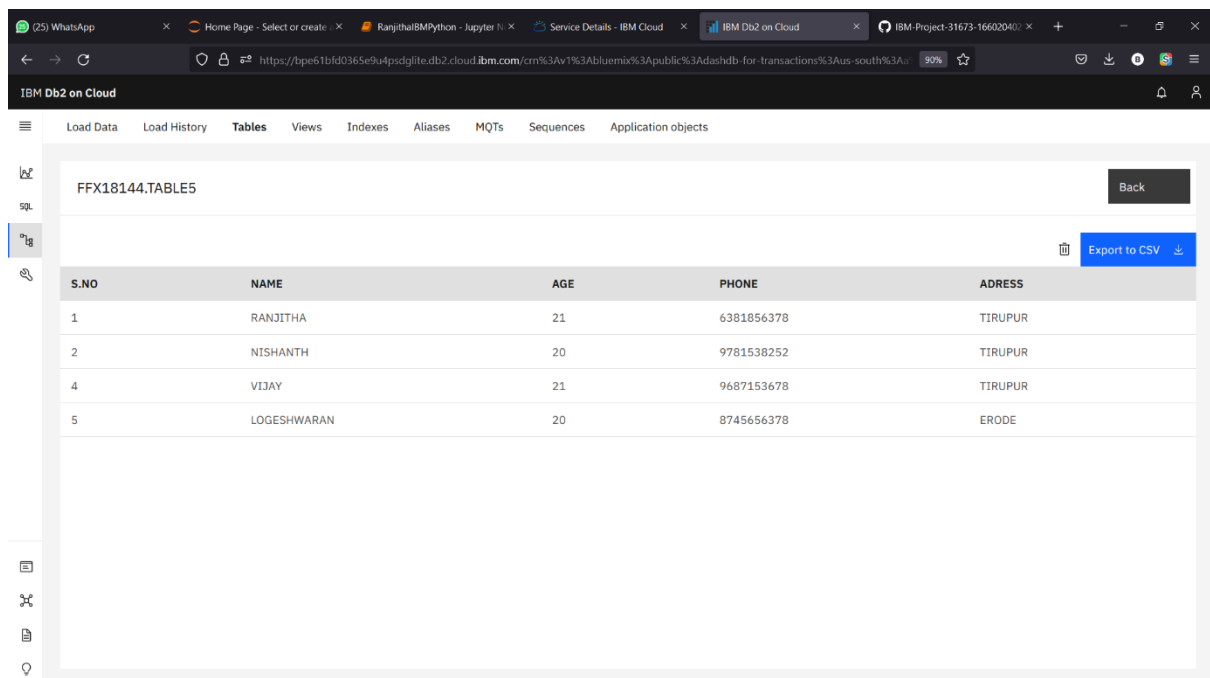


The screenshot shows the IBM Db2 on Cloud console. The SQL editor contains the following script:

```
1 UPDATE TABLE5
2 SET NAME='RANJITHA' WHERE PHONE=6381856378;
3 DELETE FROM TABLE5
4 WHERE NAME='SARAN';
```

The History tab shows the execution results:

Script	Date	Status	Runtime
Untitled - 5	Oct 1, 2022 4:25:38 PM	1	0.019 s
UPDATE TABLE5 SET NAME='RANJITHA' WHERE PHONE=6381856378			0.004 s
DELETE FROM TABLE5 WHERE NAME='SARAN'			0.015 s
Untitled - 4	Oct 1, 2022 4:25:28 PM	1	0.012 s
UPDATE TABLEN04 SET CUSTOMERNAME ='PAVITHRA' WHERE CUSTOMERID=2345			0.012 s



The screenshot shows the IBM Db2 on Cloud console displaying the results of the SQL query. The results are shown in a table with the following columns: S.NO, NAME, AGE, PHONE, and ADDRESS. The table contains 5 rows of data.

S.NO	NAME	AGE	PHONE	ADDRESS
1	RANJITHA	21	6381856378	TIRUPUR
2	NISHANTH	20	9781538252	TIRUPUR
4	VIJAY	21	9687153678	TIRUPUR
5	LOGESHWARAN	20	8745656378	ERODE

### 3.LOAD EXCEL COMMA SEPERATED FILE TO db2

IBM Db2 on Cloud

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

Load details

My computer file.csv Target FFX18144.NEWFILE

COMPLETE

View Table Load More Data

Status Settings

9 Rows read 9 Rows loaded 0 Rows rejected

Start time 10/01/2022 1:50:29 PM

End time 10/01/2022 1:50:35 PM

The data load job succeeded.  
You can now work with your data.

Errors 0 Warnings 0

No errors

**IBM Db2 on Cloud**

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

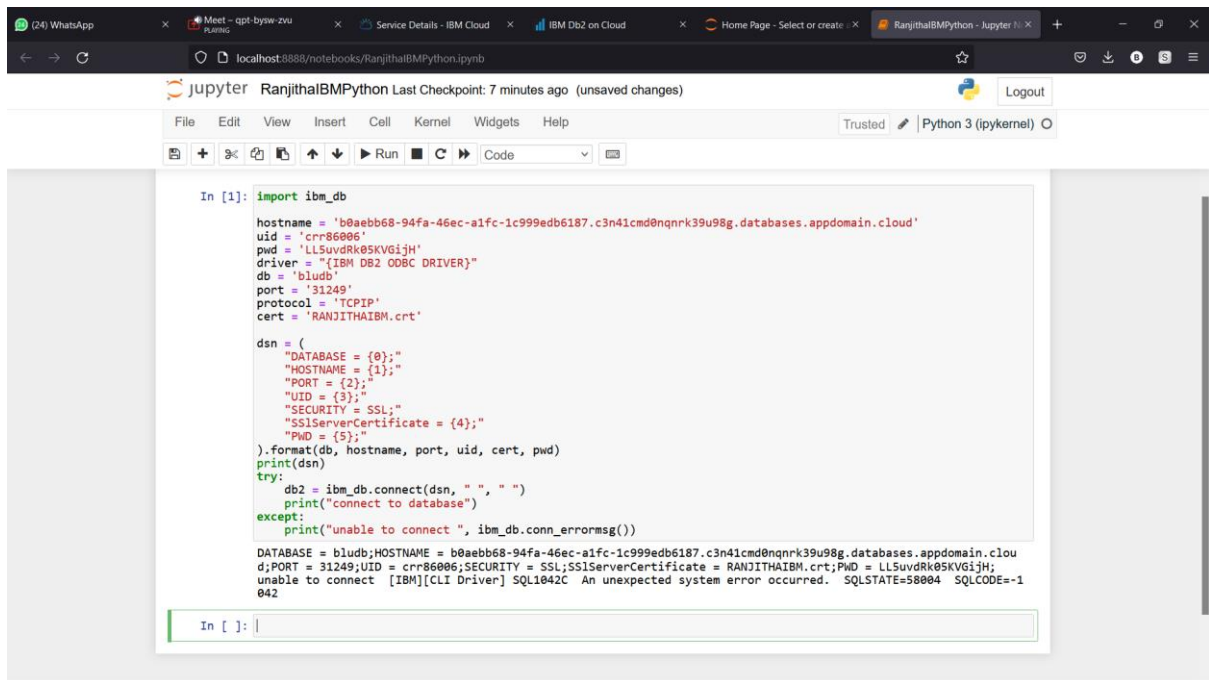
### FFX18144.NEWFILE

Back

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:	npc-zpcz-zzb			
Help/more info:	<a href="https://tinyurl.com/y5peu3nk">https://tinyurl.com/y5peu3nk</a>							
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	<a href="https://tinyurl.com/y6k2yqts">https://tinyurl.com/y6k2yqts</a>							

#### 4.CONNECT PYTHON TO db2:



```
In [1]: import ibm_db

hostname = 'b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnk39u98g.databases.appdomain.cloud'
uid = 'crr86006'
pwd = 'LLSuvdRk05KVgijH'
driver = "{IBM DB2 ODBC DRIVER}"
db = 'bludb'
port = '31249'
protocol = 'TCPIP'
cert = 'RANJITHAIBM.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 = b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnk39u98g.databases.appdomain.clou
d;PORT = 31249;UID = crr86006;SECURITY = SSL;SSLServerCertificate = RANJITHAIBM.crt;PWD = LLSuvdRk05KVgijH;
unable to connect [IBM][CLI Driver] SQL1642C An unexpected system error occurred. SQLSTATE=58004 SQLCODE=-1
042
```

CODE:

```
import ibm_db
```

```
hostname = 'ba99a9e6-d59e-4883-8fc0-d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud'
```

```
uid = 'ffx18144'
```

```
pwd = 'CNHyqBEIvbEcBBZR'
```

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

```
db = 'bludb'
```

```
port = '31321'
```

```
protocol = 'TCPIP'
```

```
cert = 'bharath.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())
```