

Assignment -1

Cloud

Assignment Date	01 October 2022
Student Name	Shanmugapriya.M
Student Roll Number	812419104308
Maximum Marks	2 Marks

Question-1:

Create 10 tables in IBM db2 and insert data by using insert query

Solution:

```
INSERT INTO TABLE9(ADHARNO, EMAIL)
VALUES ('4621','email@gmail.com')
```

The screenshot displays the IBM Db2 on 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. On the left, the 'Schemas' panel shows a table with columns 'Name', 'Type', and 'Tables'. The 'WKP18917' schema is selected, showing it is a 'User' type and contains 10 tables. On the right, the 'Tables' panel shows a list of tables: 'TABLE10', 'TABLE7', 'TABLE9', 'Table 1', 'Table 2', 'Table 3', 'Table 4', and 'Table 5'. Each table entry includes a checkbox, the table name, the schema name 'WKP18917', and a 'Properties' link. The 'New table' button is located at the top right of the 'Tables' panel. The bottom status bar indicates 'Total: 1, selected: 1' for the schemas and 'Total: 10, selected: 0' for the tables.

Question-2:

Perform UPDATE, DELETE, SELECT queries in these 10 tables

Solution:

UPDATE:

```
UPDATE TABLE9 SET ADHARNO='8501'  
WHERE ADHARNO = '1234'
```

The screenshot shows the IBM Db2 on Cloud interface. On the left, the 'Data objects' pane is open, showing a list of templates and a script named 'UPDATE DB2ADMIN.TABLE...'. The main editor area shows the following SQL query:

```
1 UPDATE TABLE9  
2 SET ADHARNO = '8521'  
3 WHERE ADHARNO = '1234'
```

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

Script	Date	Status	Runtime
Untitled - 1	Sep 22, 2022 2:47:59 PM	1	0.011 s
UPDATE TABLE9 SET ADHARNO = '8521' WHERE ADHARNO = '1234'		1	0.011 s
Untitled - 1	Sep 22, 2022 2:41:04 PM	1	0.010 s
INSERT INTO TABLE9 (ADHARNO,EMAIL) VALUES ('4563','6543')		1	0.010 s
Untitled - 1	Sep 22, 2022 2:40:42 PM	1	0.010 s

DELETE:

```
DELETE FROM TABLE9  
WHERE ADHARNO = '8521'
```

The screenshot shows the IBM Db2 on Cloud interface. On the left, the 'Data objects' pane is open, showing a list of templates and a script named 'DELETE FROM DB2ADMIN...'. The main editor area shows the following SQL query:

```
1 DELETE FROM TABLE9  
2 WHERE ADHARNO = '8521'
```

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

Script	Date	Status	Runtime
Untitled - 1	Sep 22, 2022 2:51:28 PM	1	0.016 s
DELETE FROM TABLE9 WHERE ADHARNO = '8521'		1	0.016 s
Untitled - 1	Sep 22, 2022 2:50:14 PM	1	0.009 s
DELETE FROM TABLE9 WHERE ADHARNO = '1234'		1	0.009 s
Untitled - 1	Sep 22, 2022 2:47:59 PM	1	0.011 s

SELECT:

SELECT * FROM TABLE9

The screenshot shows the IBM Db2 on Cloud interface. On the left, there's a sidebar with 'Data objects' and 'My script'. The 'My script' tab is active, showing a list of templates and a script titled 'SELECT 'TABLE' AS OBJEC...'. The main area displays a SQL editor with the query 'SELECT * FROM TABLE9'. Below the editor, the 'Results' tab is selected, showing 'Result set 1' with 2 columns: 'ADHARNO' and 'EMAIL'. The results are as follows:

ADHARNO	EMAIL
5678	8790
4563	6543

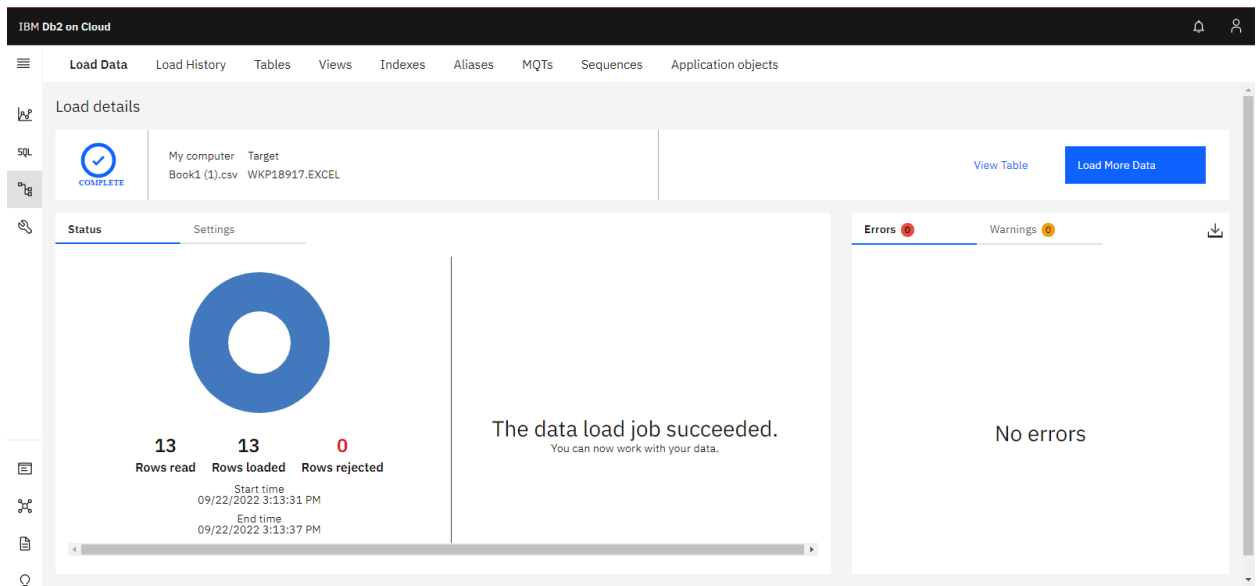
Question-3:

Load excel comma separated file to ibm-db2

Solution:

The screenshot shows the IBM Db2 on Cloud interface with a table named 'WKP18917.EXCEL'. The table has 5 columns: 'R_D_SPEND', 'ADMINISTRATION', 'MARKETING_SPEND', 'STATE', and 'PROFIT'. The data is as follows:

R_D_SPEND DECIMAL(10, 2)	ADMINISTRATION DECIMAL(10, 2)	MARKETING_SPEND DECIMAL(10, 2)	STATE VARCHAR(10)	PROFIT DECIMAL(10, 2)
93863.75	127320.38	249839.44	Florida	141585.52
100671.96	91790.61	249744.55	California	144259.40
101913.08	110594.11	229160.95	Florida	146121.95
120542.52	148718.95	311613.29	New York	152211.77
123334.88	108679.17	304981.62	California	149759.96
130298.13	145530.06	323876.68	Florida	155752.60
131876.90	99814.71	362861.36	New York	156991.12
134615.46	147198.87	127716.82	California	156122.51
142107.34	91391.77	366168.42	Florida	166187.94
144372.41	118671.85	383199.62	New York	182901.99
153441.51	101145.55	407934.54	Florida	191050.39
162597.70	151377.59	443898.53	California	191792.06
165349.20	136897.80	471784.10	New York	192261.83



Question-3:

Connect python to db2

Solution:

```
import ibm_db
```

```
hostname="b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnkr39u98g.databases.appdomain.cloud"
uid="wkp18917"
pwd="f3qGnBGl8NrMyTWu"
driver="{IBM DB2 ODBC DRIVER}"
db="bludb"
port="31249"
protocol="TCPIP"
cert="certificate.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("Connected to database")
```

```
except:
```

```
    print("Unable to connect to database",ibm_db.conn_errormsg());
```