

## Assignment -2

### IBM DB2

Assignment Date	16 September 2022
Student Name	M.Anitha
Student Roll Number	814619104001
Maximum Marks	2 Marks

### Question-1:

Create 5 Tables in IBM DB2 and Insert Data by using Insert Query.

Solution: **DB1**

```
INSERT INTO DB1(name,email,regno)
```

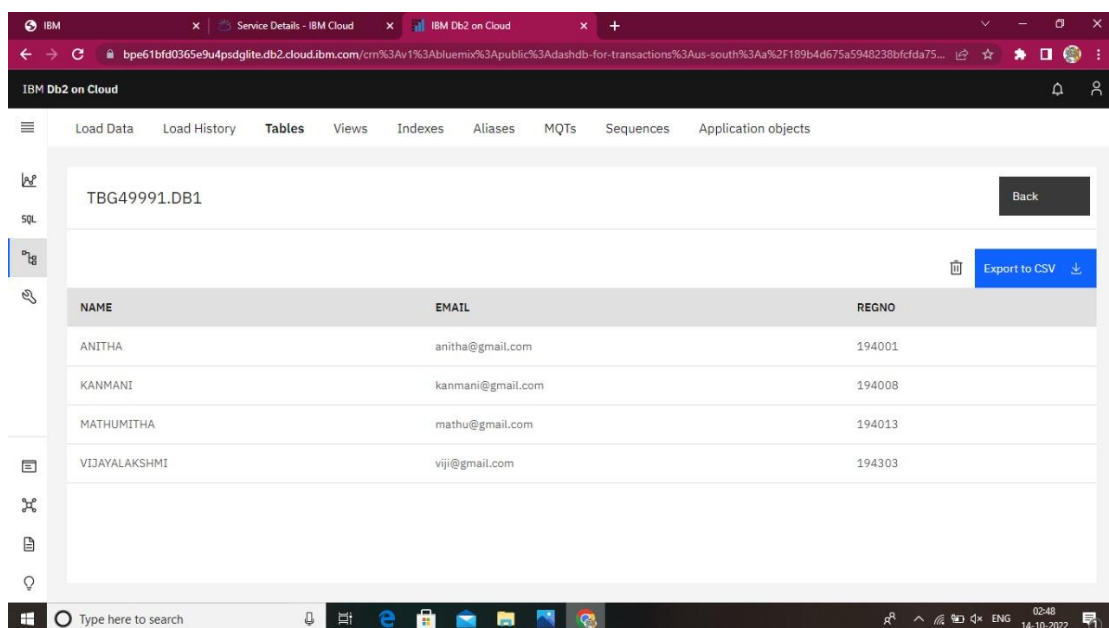
```
VALUES('anitha','anitha@gmail.com','194001')
```

```
VALUES('kanmani','kanmani@gmail.com','194008')
```

```
VALUES('mathumitha','mathu@gmail.com','194013')
```

```
VALUES('vijayalakshmi','viji@gmail.com','194303')
```

Output:



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, and a table named 'TBG49991.DB1' is displayed. The table has three columns: 'NAME', 'EMAIL', and 'REGNO'. The data is as follows:

NAME	EMAIL	REGNO
ANITHA	anitha@gmail.com	194001
KANMANI	kanmani@gmail.com	194008
MATHUMITHA	mathu@gmail.com	194013
VIJAYALAKSHMI	viji@gmail.com	194303

The interface also includes a 'Back' button, an 'Export to CSV' button, and a search bar at the bottom.

## DB2

## DB2

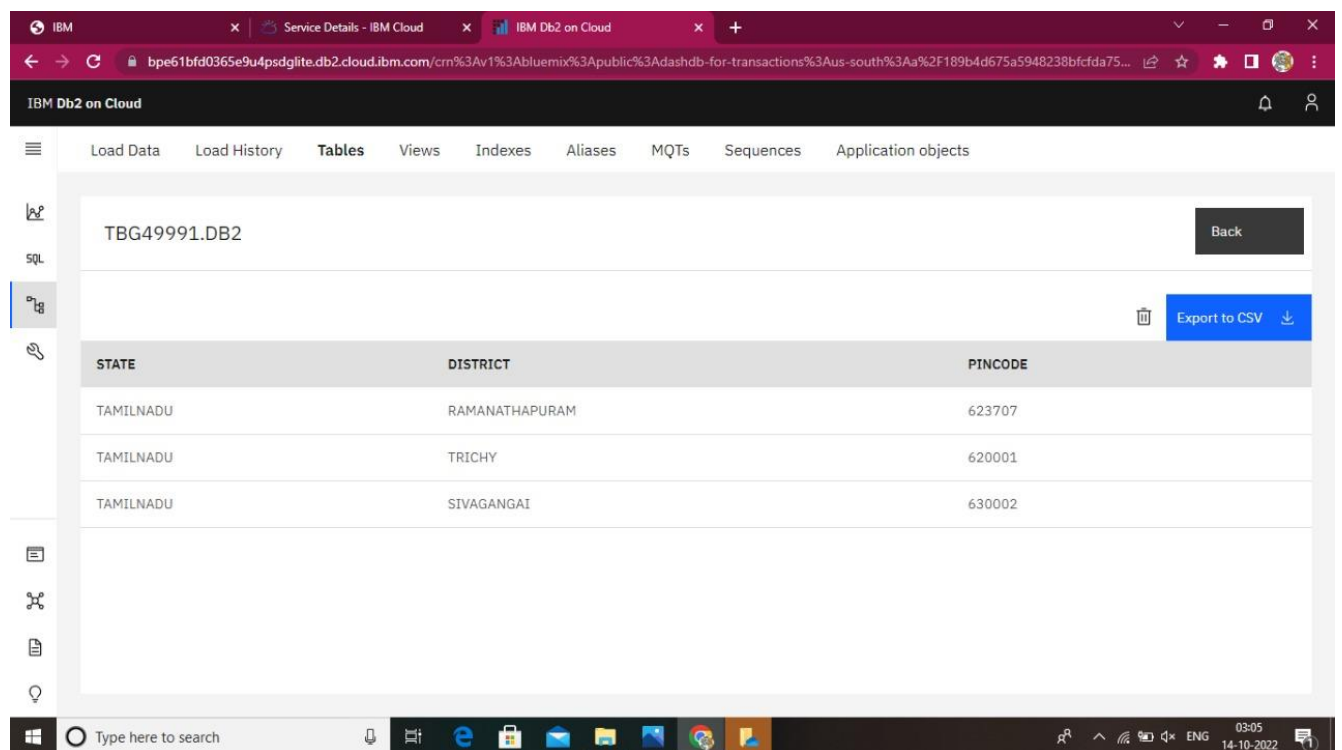
```
INSERT INTO TABLE2(state, district, pincode)
```

```
VALUES('TAMILNADU','RAMANATHAPURAM','623707')
```

```
VALUES('TAMILNADU','TRICHY',620001')
```

```
VALUES('TAMILNADU','SIVAGANGAI',63002)
```

## Output:



The screenshot shows 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, displaying a table named 'TBG49991.DB2'. The table has three columns: 'STATE', 'DISTRICT', and 'PINCODE'. The data rows are as follows:

STATE	DISTRICT	PINCODE
TAMILNADU	RAMANATHAPURAM	623707
TAMILNADU	TRICHY	620001
TAMILNADU	SIVAGANGAI	630002

The interface also includes a 'Back' button, an 'Export to CSV' button, and a search bar at the bottom.

## DB3

```
INSERT INTO DB3(name, college, department)
```

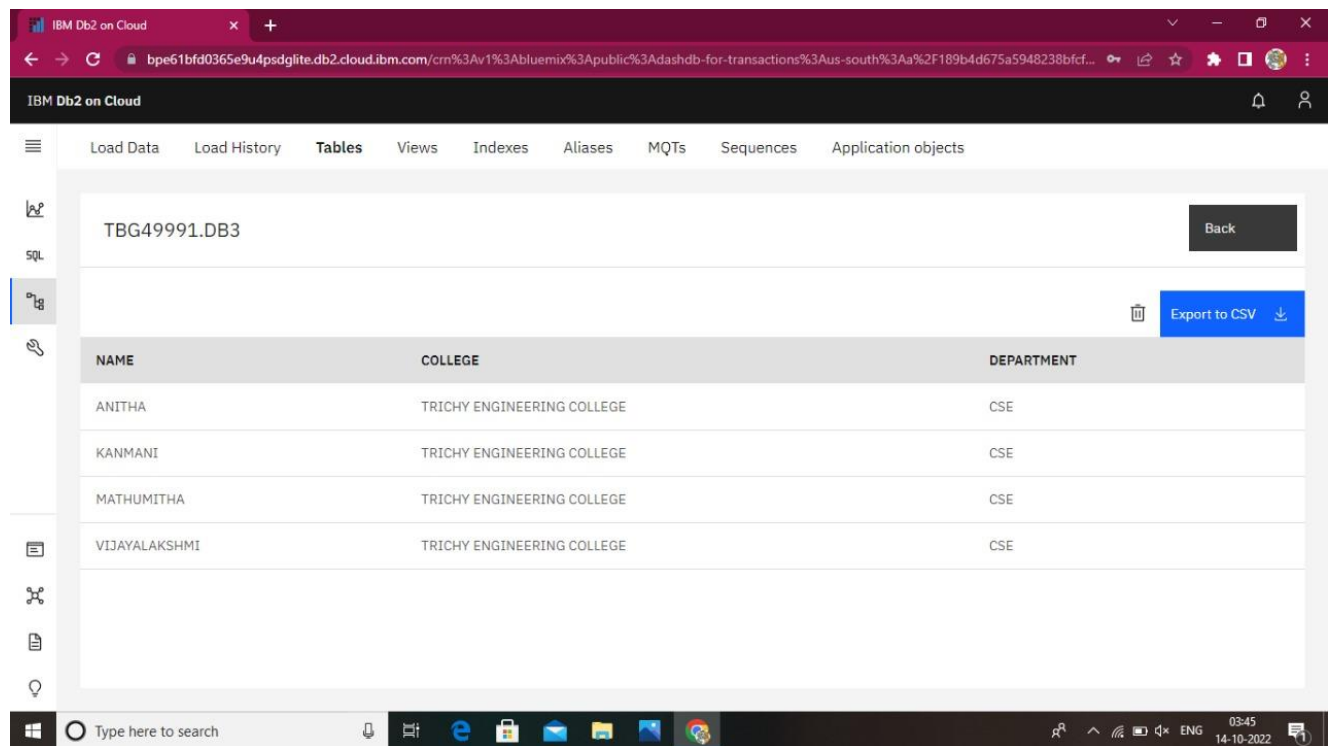
```
VALUES('ANITHA','TRICHY ENGINEERING COLLEGE ','CSE')
```

```
VALUES('KANMANI','TRICHY ENGINEERING COLLEGE','CSE '),)
```

```
VALUES('MATHUMITHA','TRICHY ENGINEERING COLLEGE ','CSE')
```

```
VALUES('VIJI','TRICHY ENGINEERING COLLEGE ','CSE')
```

## Output:



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, and the table 'TBG49991.DB3' is displayed. The table has three columns: 'NAME', 'COLLEGE', and 'DEPARTMENT'. The data is as follows:

NAME	COLLEGE	DEPARTMENT
ANITHA	TRICHY ENGINEERING COLLEGE	CSE
KANMANI	TRICHY ENGINEERING COLLEGE	CSE
MATHUMITHA	TRICHY ENGINEERING COLLEGE	CSE
VIJAYALAKSHMI	TRICHY ENGINEERING COLLEGE	CSE

The interface also includes a 'Back' button, an 'Export to CSV' button, and a search bar at the bottom.

## DB4

```
INSERT INTO DB4(Customer_id, salary, state)
```

```
VALUES('1','10000','tamilnadu')
```

```
VALUES('2','20000','tamilnadu')
```

```
VALUES('3','30000','tamilnadu')
```

## Output:

IBM Db2 on Cloud

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

TBG49991.DB4

Back

Export to CSV

CUSTOMER_ID	SALARY	STATE
1	10000	tamilnadu
2	20000	tamilnadu
3	30000	tamilnadu

Type here to search

05:29 14-10-2022

## DB5

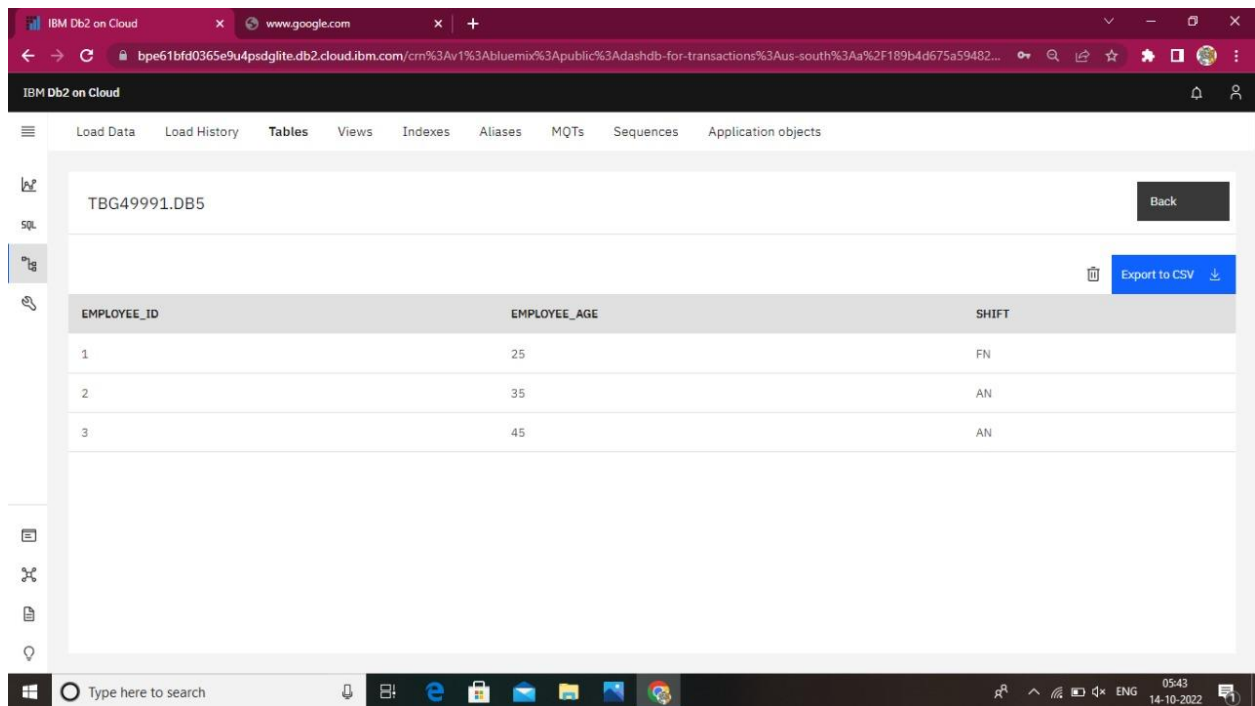
```
INSERT INTO DB5(employee_id, employee_age, shift )
```

```
VALUES('1','25','FN')
```

```
VALUES('2','35','AN')
```

```
VALUES('1','45','AN')
```

Output:



The screenshot shows the IBM Db2 on Cloud console interface. The browser address bar displays the URL: `bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F189b4d675a59482...`. The console header includes navigation tabs: Load Data, Load History, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The left sidebar contains icons for SQL, Tables, and other database objects. The main content area displays the table `TBG49991.DB5` with the following data:

EMPLOYEE_ID	EMPLOYEE_AGE	SHIFT
1	25	FN
2	35	AN
3	45	AN

Additional UI elements include a 'Back' button, an 'Export to CSV' button, and a search bar at the bottom of the console.

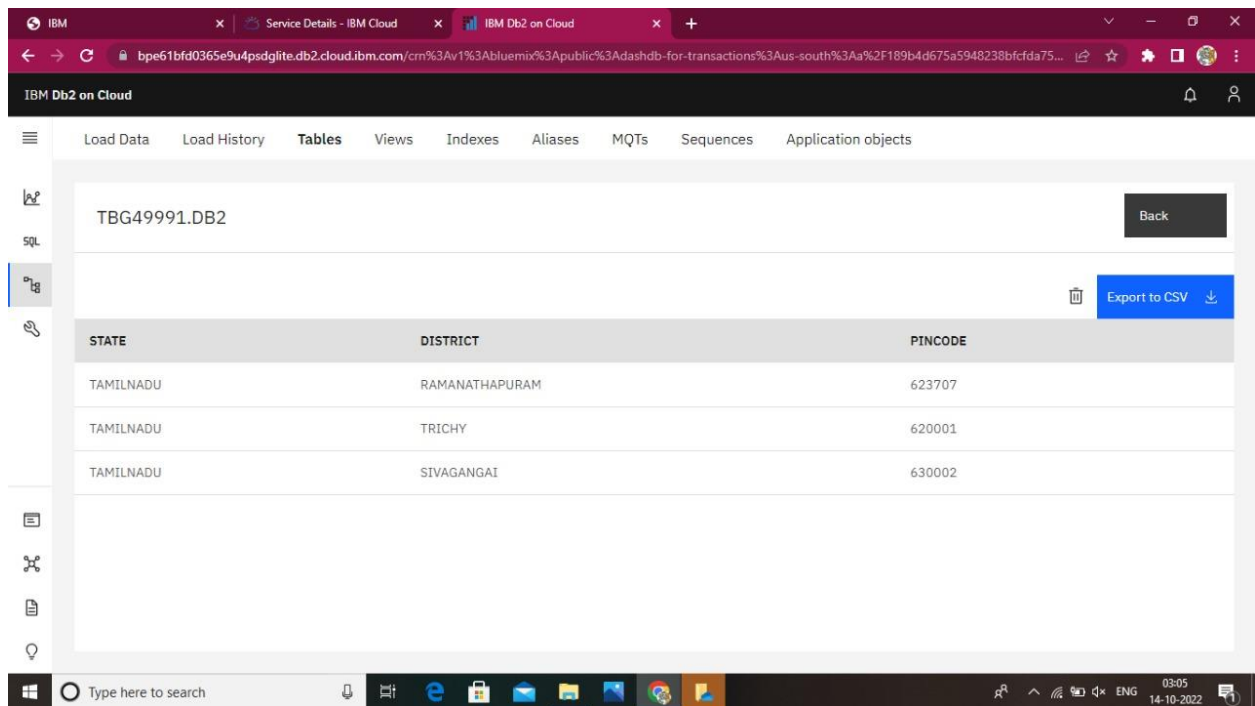
## Question-2:

Perform UPDATE,DELETE Queries in Tables:

Solution:

DB2:

Before Update:



IBM Db2 on Cloud

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

TBG49991.DB2 [Back](#)

[Export to CSV](#)

STATE	DISTRICT	PINCODE
TAMILNADU	RAMANATHAPURAM	623707
TAMILNADU	TRICHY	620001
TAMILNADU	SIVAGANGAI	630002

Type here to search

03:05 14-10-2022

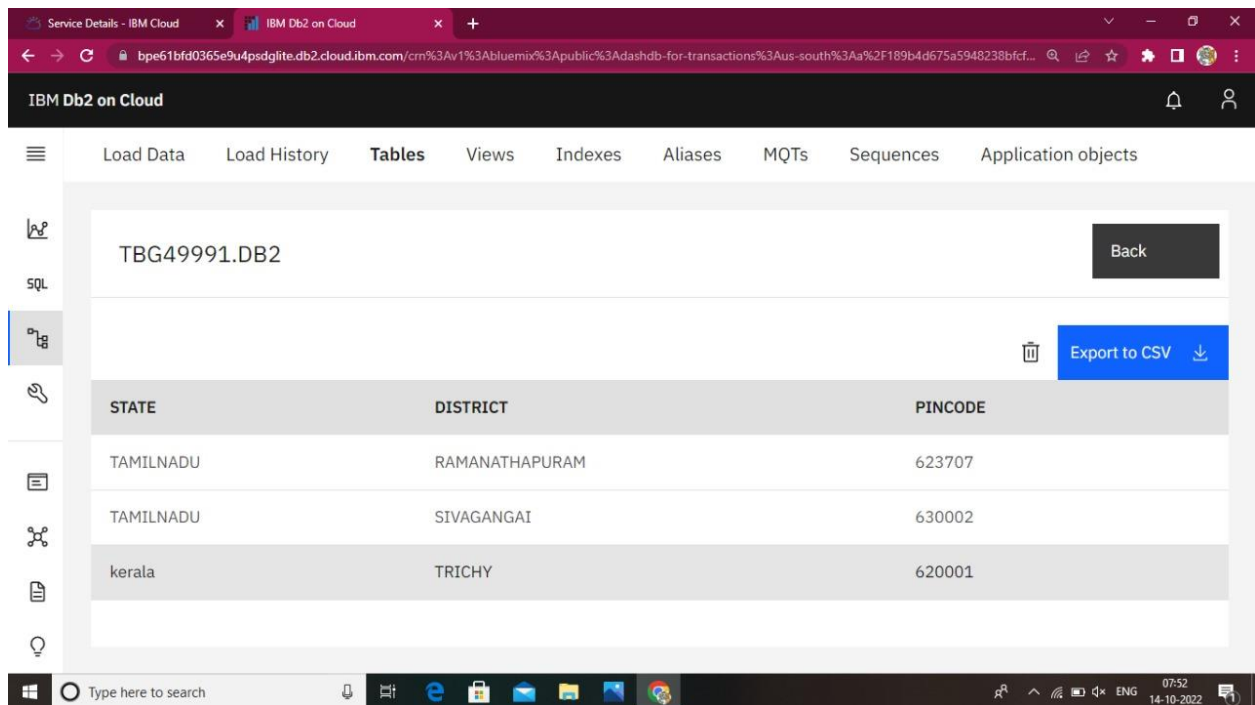
## After Update:

UPDATE DB2

SET state='kerala'

WHERE pincode=620001

## Output:



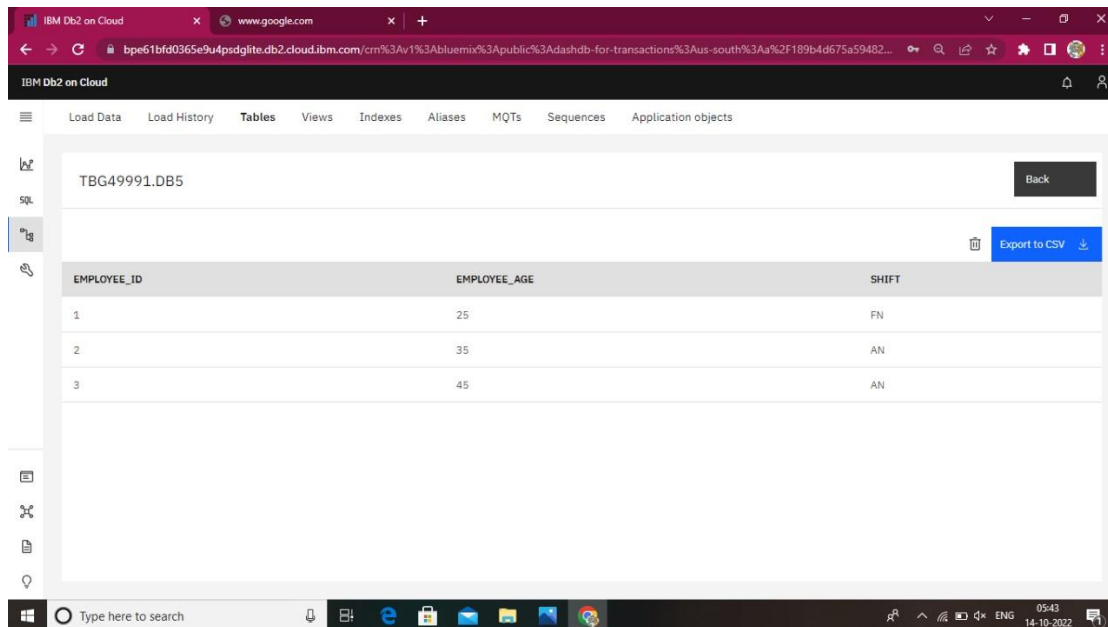
The screenshot shows the IBM Db2 on Cloud console interface. The top navigation bar includes tabs for Load Data, Load History, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The 'Tables' tab is selected, and the table 'TBG49991.DB2' is displayed. The table has three columns: STATE, DISTRICT, and PINCODE. The data is as follows:

STATE	DISTRICT	PINCODE
TAMILNADU	RAMANATHAPURAM	623707
TAMILNADU	SIVAGANGAI	630002
kerala	TRICHY	620001

The row with STATE=kerala and PINCODE=620001 is highlighted in grey. The console also shows a 'Back' button and an 'Export to CSV' button.

**DB5:**

**Before Delete:**



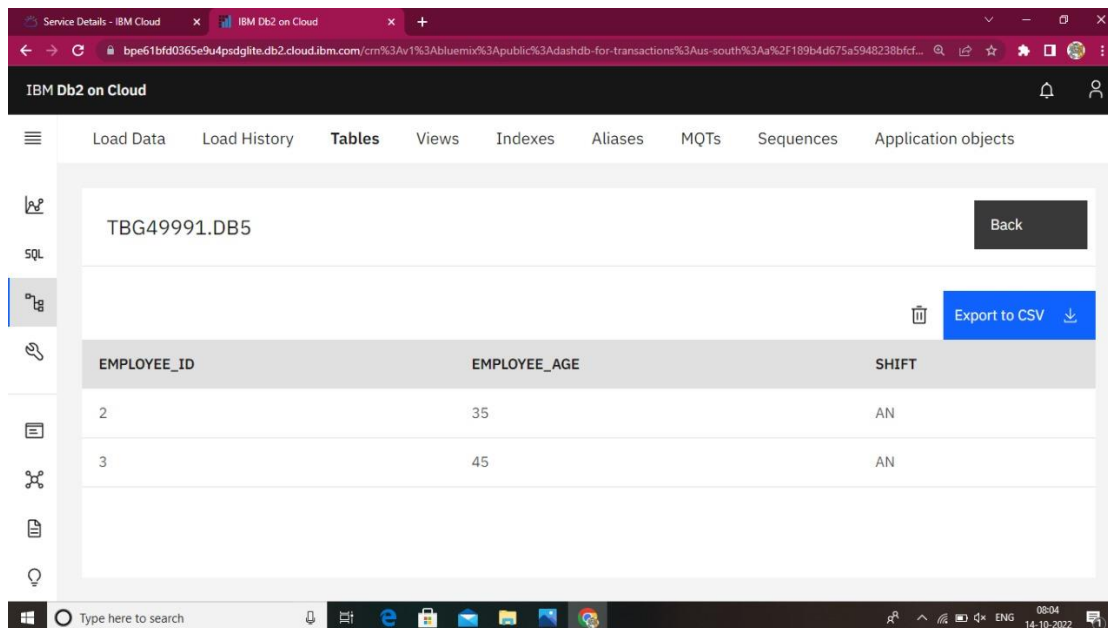
The screenshot shows the IBM Db2 on Cloud console interface. The top navigation bar includes tabs for Load Data, Load History, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The 'Tables' tab is selected, displaying a table named TBG49991.DB5. To the right of the table name is a 'Back' button. Below the table name, there is a table with three columns: EMPLOYEE\_ID, EMPLOYEE\_AGE, and SHIFT. The table contains three rows of data. To the right of the table is an 'Export to CSV' button. The bottom of the screenshot shows a Windows taskbar with the search bar and several application icons.

EMPLOYEE_ID	EMPLOYEE_AGE	SHIFT
1	25	FN
2	35	AN
3	45	AN

**After Delete:**

**DELETE FROM TABLE3**

**WHERE S\_ID=104**



The screenshot shows the IBM Db2 on Cloud console interface after a deletion operation. The top navigation bar is the same as in the previous screenshot. The 'Tables' tab is selected, displaying the same table TBG49991.DB5. The 'Back' button and 'Export to CSV' button are still present. The table now contains only two rows of data, as the row with EMPLOYEE\_ID 1 has been deleted. The bottom of the screenshot shows the same Windows taskbar.

EMPLOYEE_ID	EMPLOYEE_AGE	SHIFT
2	35	AN
3	45	AN



## Question-3:

Load excel comma separated file to DB2:

Solution:

Service Details - IBM Cloud | IBM Db2 on Cloud | CAD-B9-3A5E(Evening Session)- | +

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F189b4d675a5948238bfcda754f5e...

IBM Db2 on Cloud

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

Source | Target | Define | Finalize

You are loading the file **members.csv** into **TBG49991.DEMO**

Code page (character encoding): 1208 (UTF-8) | Separator: , | Header in first row: ☒ | Time & date format: | Detect data types: ☐

	NAME VARCHAR(12)	SURNAME VARCHAR(11)	EMAIL VARCHAR(29)	STATUS VARCHAR(6)	USERTYPE VARCHAR(11)	LASTSEEN DATE
1	Vasim	Akram	rvasimakram2001@gmail.com	Active	Mural owner	09/17/2022
2	Sendhooran	A	sendhoorana@trichyengg.ac.in	Active	Mural owner	09/17/2022
3	814619104019	SUBASH M	814619104019@trichyengg.ac.in	Active	Room member	
4	814619106301	SAMSON G	814619106301@trichyengg.ac.in	Active	Room member	09/16/2022
5	VANAJA	A	814619106302@trichyengg.ac.in	Active	Room member	09/17/2022
6	SHFNNH IIRATHI	S K	814619104017@trichyengg.ac.in	Active	Room member	

Back | Next

User Info.csv.xlsx | Show all

Type here to search | 33°C Partly sunny | 3:48 AM 10/3/2022

Service Details - IBM Cloud | IBM Db2 on Cloud | CAD-B9-3A5E(Evening Session)- | +

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F189b4d675a5948238bfcda754f5e...

IBM Db2 on Cloud

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

TBG49991.DEMO | Back

Export to CSV

NAME	SURNAME	EMAIL	STATUS	USERTYPE	LASTSEEN	EDITINGRIGHTS	EXPORT	DUPLICATE	INVITEOTHERS	FACIL
814619104012	LAVANYA S	814619104012@trichyengg.ac.in	Active	Room member		Edit	No	No	No	No
814619104019	SUBASH M	814619104019@trichyengg.ac.in	Active	Room member		Edit	Yes	Yes	Yes	No
814619106301	SAMSON G	814619106301@trichyengg.ac.in	Active	Room member	2022-09-16	Edit	Yes	Yes	Yes	No

User Info.csv.xlsx | Show all

Type here to search | 33°C Partly sunny | 3:48 AM 10/3/2022

## Question-4:

### Connect Python to DB2:

