

Assignment -2

IBM DB2

Assignment Date	16 September 2022
Student Name	R. Mathu Mitha
Student Roll Number	814619104013
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)
```

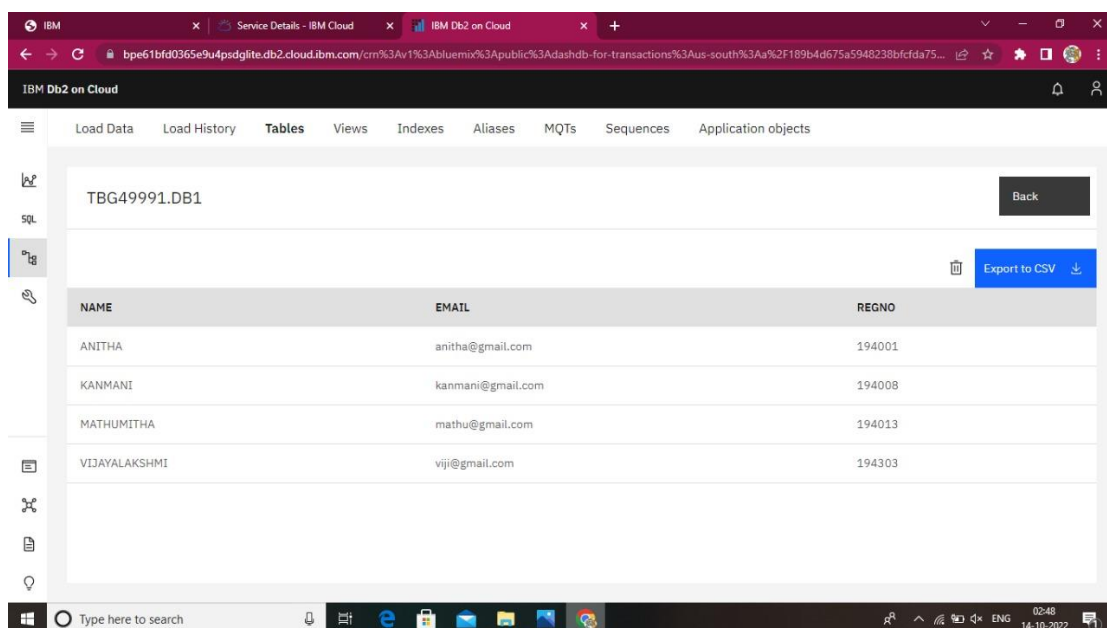
```
VALUES('anitha','anitha@gmail.com','194001')
```

```
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 the table '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

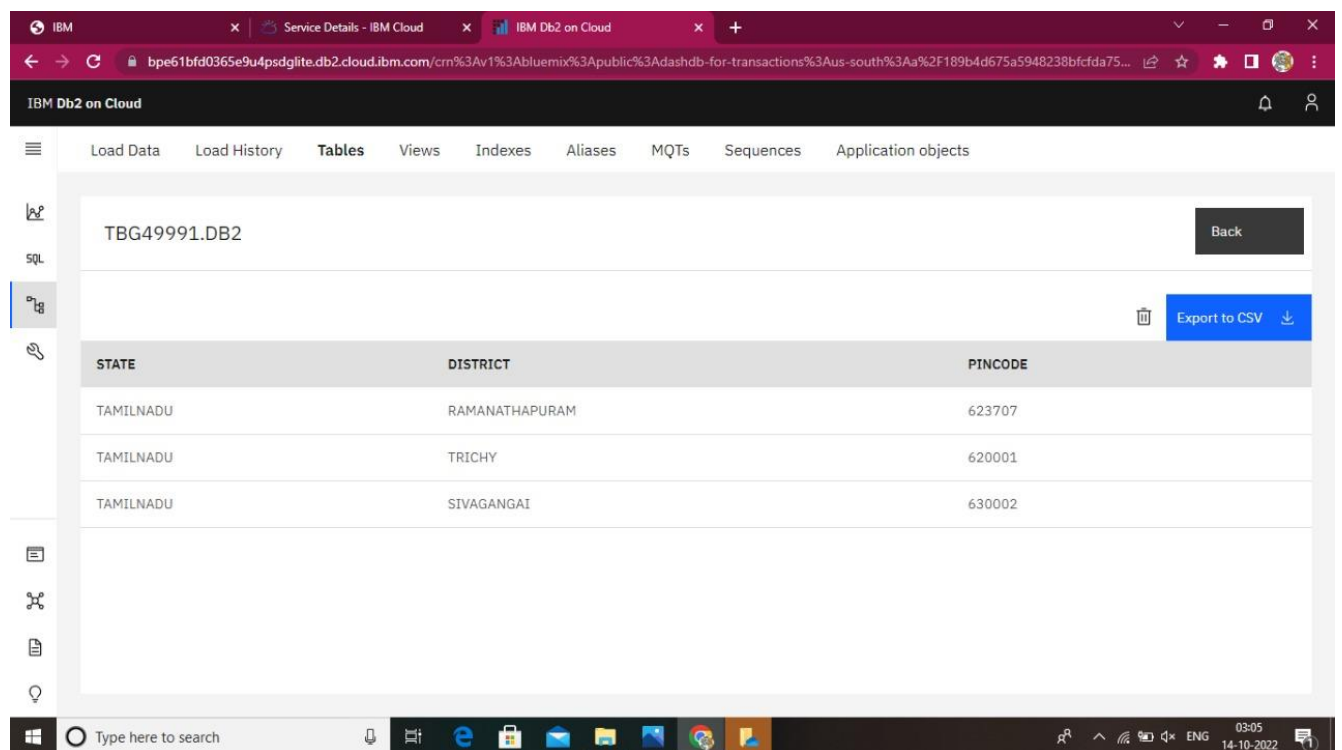
```
INSERT INTO TABLE2(state, district, pincode)
```

```
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 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.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)

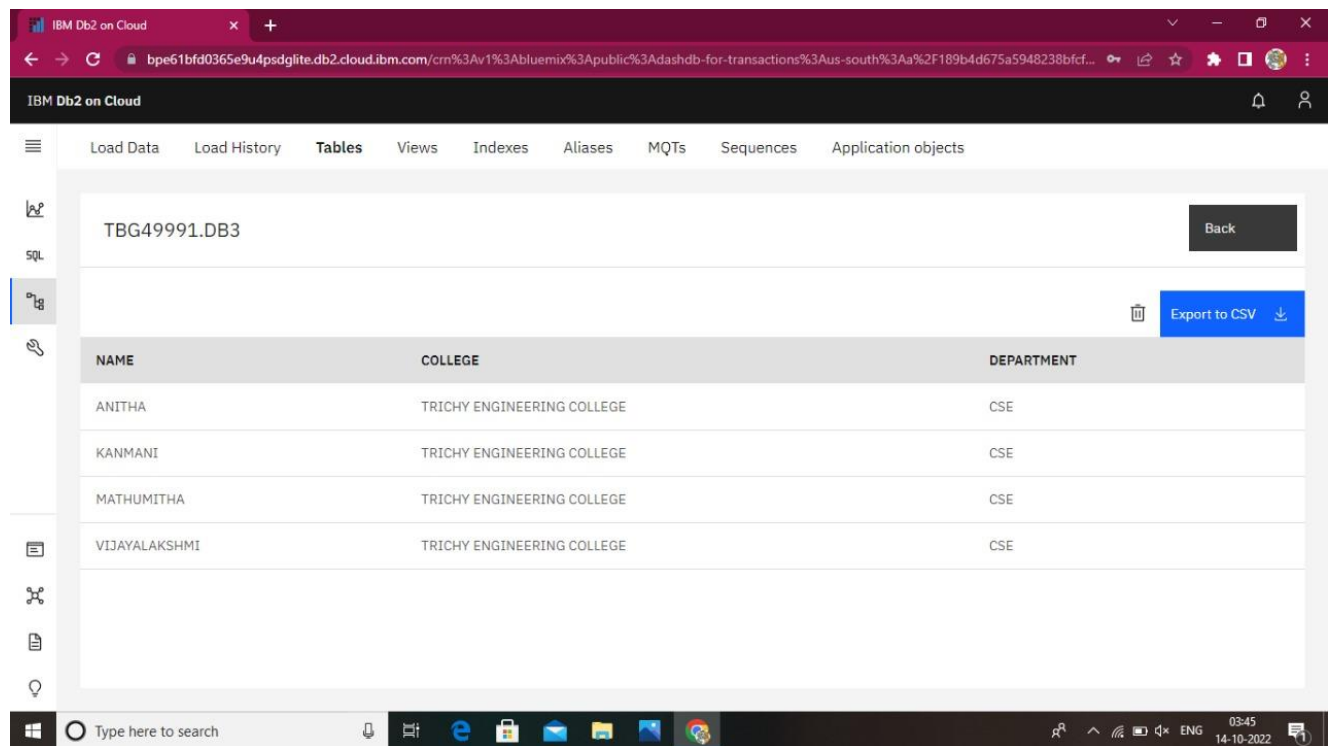
VALUES('ANITHA','TRICHY ENGINEERING COLLEGE ','CSE')

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 browser address bar displays the URL: `bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F189b4d675a5948238bfcf...`. The interface includes a navigation bar with tabs: Load Data, Load History, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The 'Tables' tab is selected, showing a table named 'TBG49991.DB3'. A 'Back' button is visible in the top right corner of the table view. Below the table name, there is an 'Export to CSV' button. The table itself has three columns: NAME, COLLEGE, and DEPARTMENT. It contains five rows of data, all with the same college and department values.

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

DB4

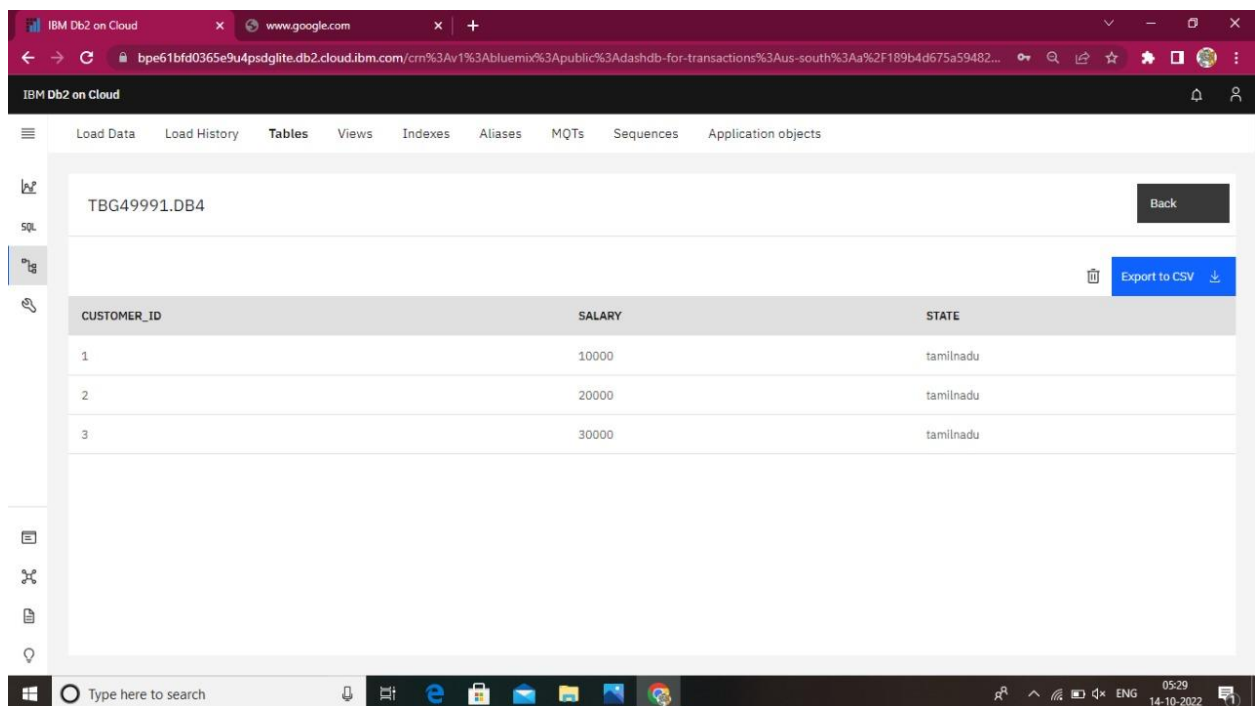
INSERT INTO DB4(Customer_id, salary, state)

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

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

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

Output:



The screenshot shows the IBM Db2 on Cloud web interface. The browser address bar displays the URL: `bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/cm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F189b4d675a59482...`. The interface includes a navigation bar with tabs: Load Data, Load History, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The 'Tables' tab is selected, showing a table named 'TBG49991.DB4'. The table structure is as follows:

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

Additional interface elements include a 'Back' button, an 'Export to CSV' button, and a sidebar with icons for SQL, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The Windows taskbar at the bottom shows the search bar and various application icons.

DB5

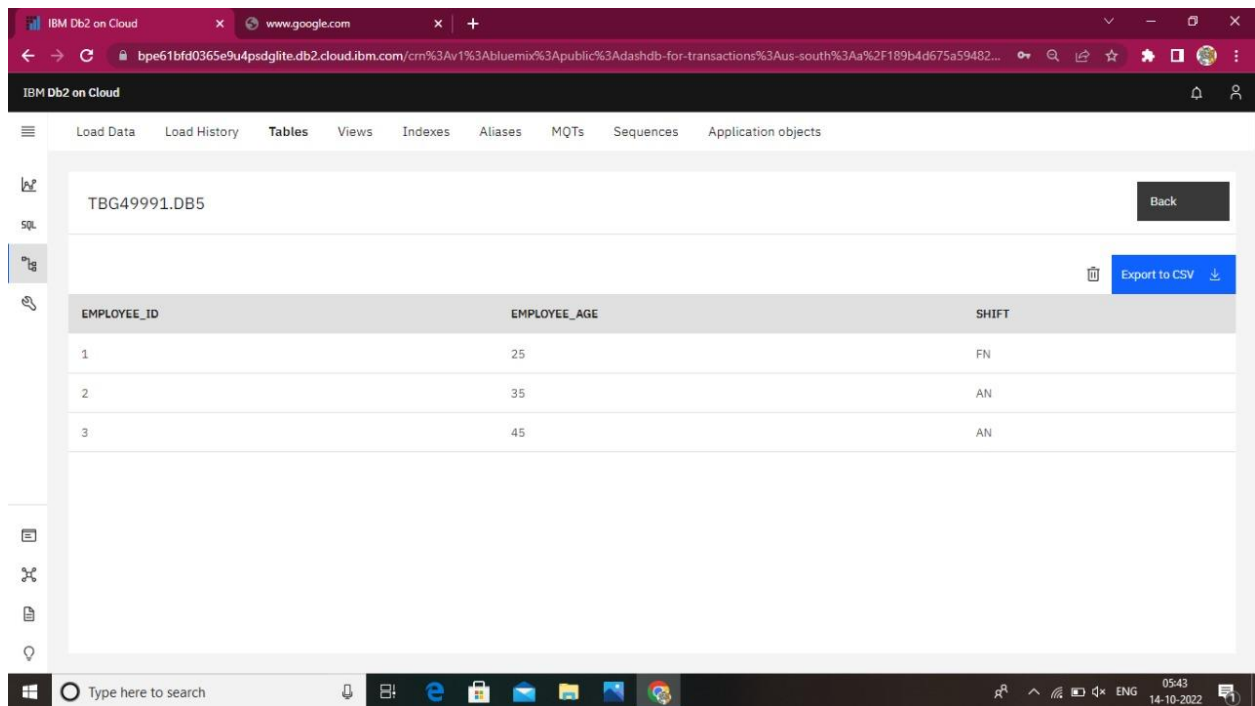
```
INSERT INTO DB5(employee_id, employee_age, shift )
```

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

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

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

Output:



IBM Db2 on Cloud

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

TBG49991.DB5

Back

Export to CSV

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

Type here to search

05:43 14-10-2022

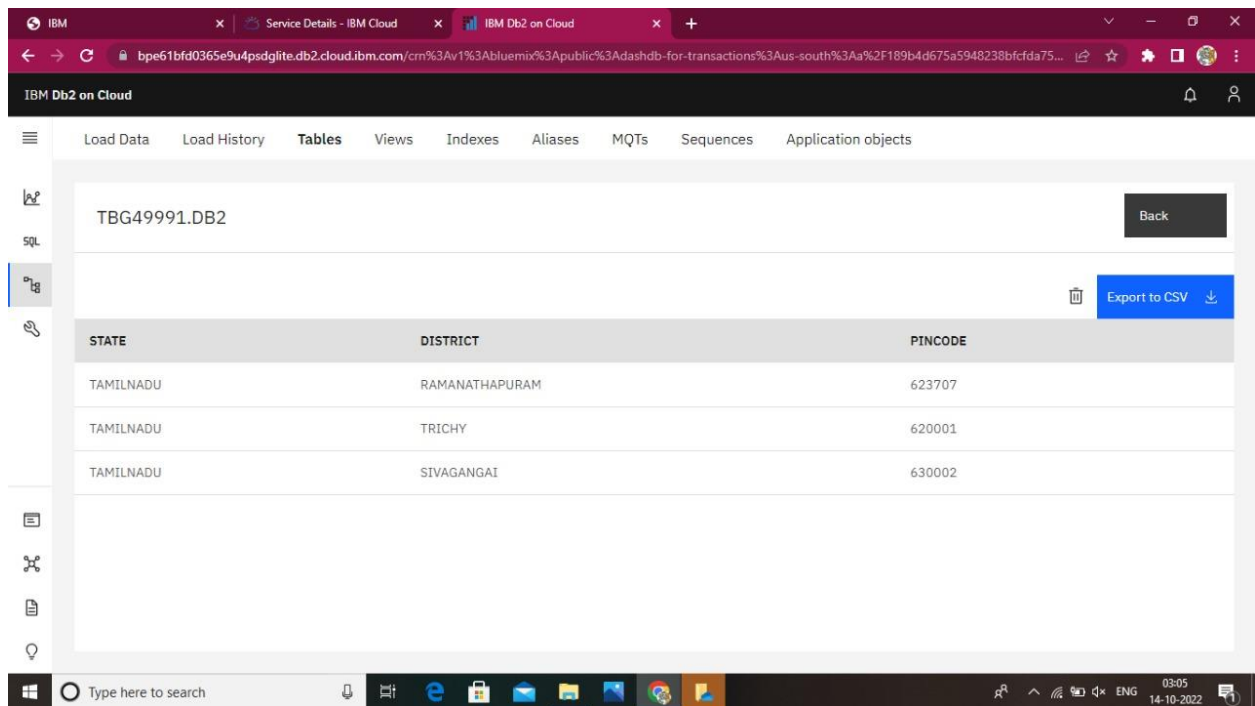
Question-2:

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

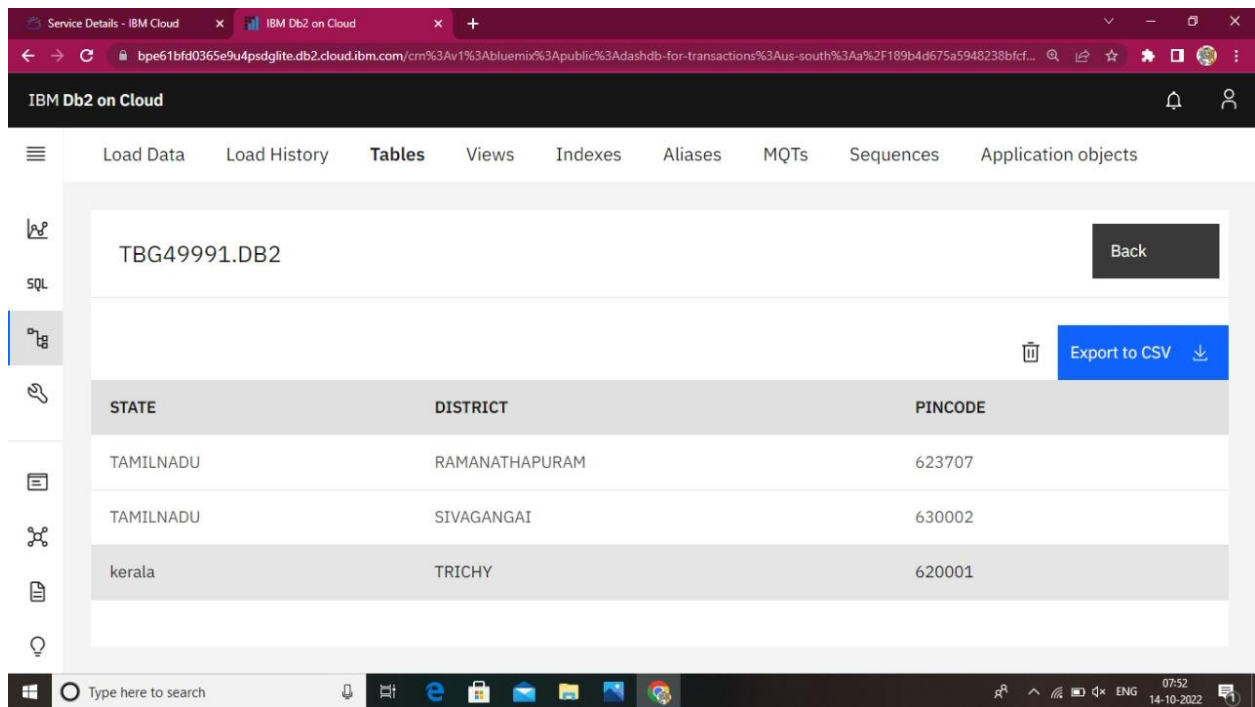
After Update:

UPDATE DB2

SET state='kerala'

WHERE pincode=620001

Output:



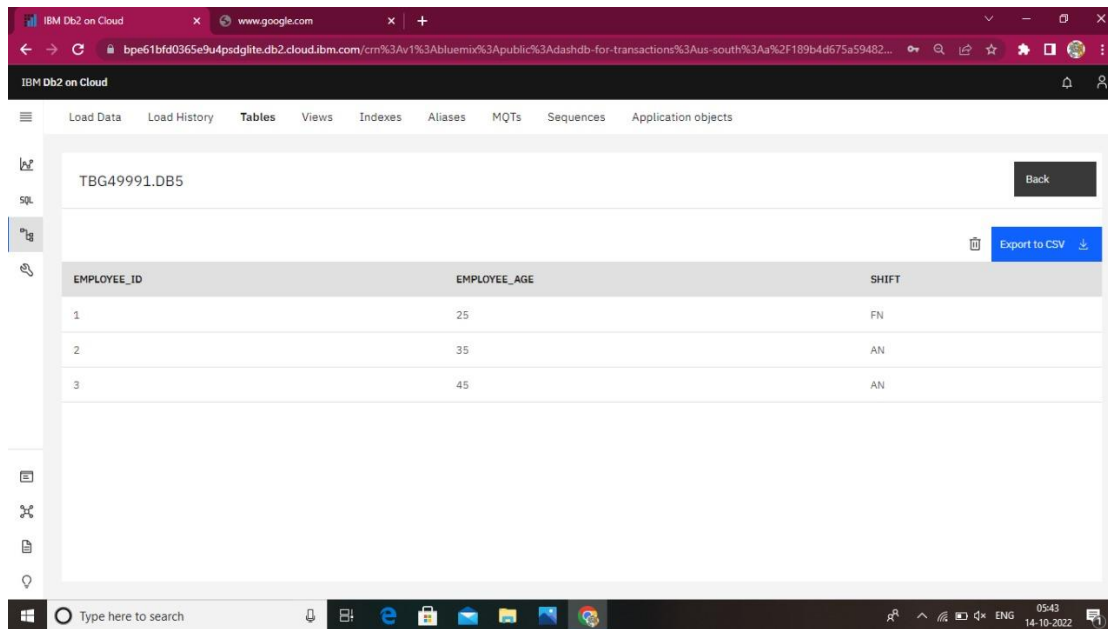
The screenshot shows the IBM Db2 on Cloud console interface. The top navigation bar includes tabs for Load Data, Load History, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The 'Tables' tab is selected, and the table 'TBG49991.DB2' is displayed. The table has three columns: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

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

The row for 'kerala' and '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 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.DB5' is displayed. The table has three columns: 'EMPLOYEE_ID', 'EMPLOYEE_AGE', and 'SHIFT'. The data rows are as follows:

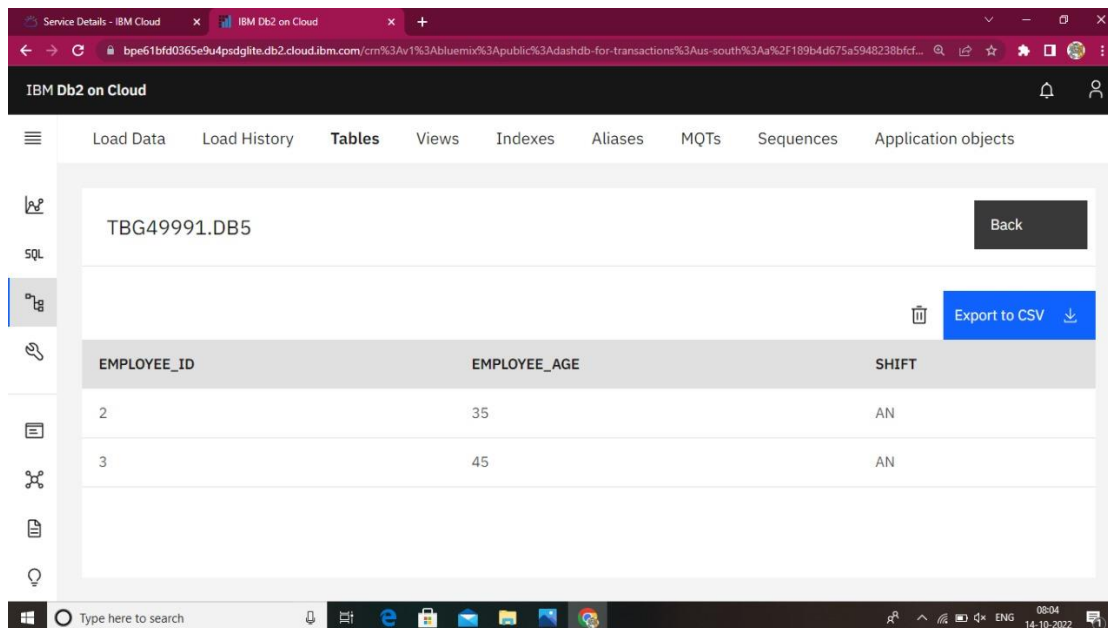
EMPLOYEE_ID	EMPLOYEE_AGE	SHIFT
1	25	FN
2	35	AN
3	45	AN

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

After Delete:

DELETE FROM TABLE3

WHERE S_ID=104



The screenshot shows the IBM Db2 on Cloud web interface after a deletion operation. The table 'TBG49991.DB5' is still displayed, but the row with 'EMPLOYEE_ID' 1 has been removed. The data rows are as follows:

EMPLOYEE_ID	EMPLOYEE_AGE	SHIFT
2	35	AN
3	45	AN

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

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	SURNAME	EMAIL	STATUS	USERTYPE	LASTSEEN
	VARCHAR(12)	VARCHAR(11)	VARCHAR(29)	VARCHAR(6)	VARCHAR(11)	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:

