

ASSIGNMENT-2

IBM DB2

Assignment Date	16 September 2022
Student Name	Mr.S.Deepakchandhiran
Student Roll Number	814619104004
Maximum Marks	2 Marks

Question-1:

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

Solution: **TABLE1**

```
INSERT INTO TABLE1(name,email,regno)
```

```
VALUES('DEEPAKCHANDHIRAN','deepak@gmail.com','19104004')
```

```
VALUES('KARTHICK','karthick@gmail.com','19104009')
```

```
VALUES('KRISHNARAJ','krishnaraj@gmail.com','19104011')
```

```
VALUES('VIGNESH','vignesh@gmail.com','19104022')
```

Output:

The screenshot shows the IBM Db2 on Cloud web interface. The 'Tables' tab is selected, displaying the details of 'CQK80916.TABLE1'. The table structure is as follows:

NAME	EMAIL	REGNO
DEEPAKCHANDHIRAN	deepakchandhiran@gmail.com	19104004
KARTHICK	karthick@gmail.com	19104009
KRISHNARAJ	krishnaraj@gmail.com	19104011
VIGNESH	vignesh@gmail.com	19104022

The interface also includes a 'Back' button, an 'Export to CSV' button, and a sidebar with navigation options like 'Load Data', 'Load History', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'.

TABLE2

INSERT INTO TABLE2(studentid,name,district)

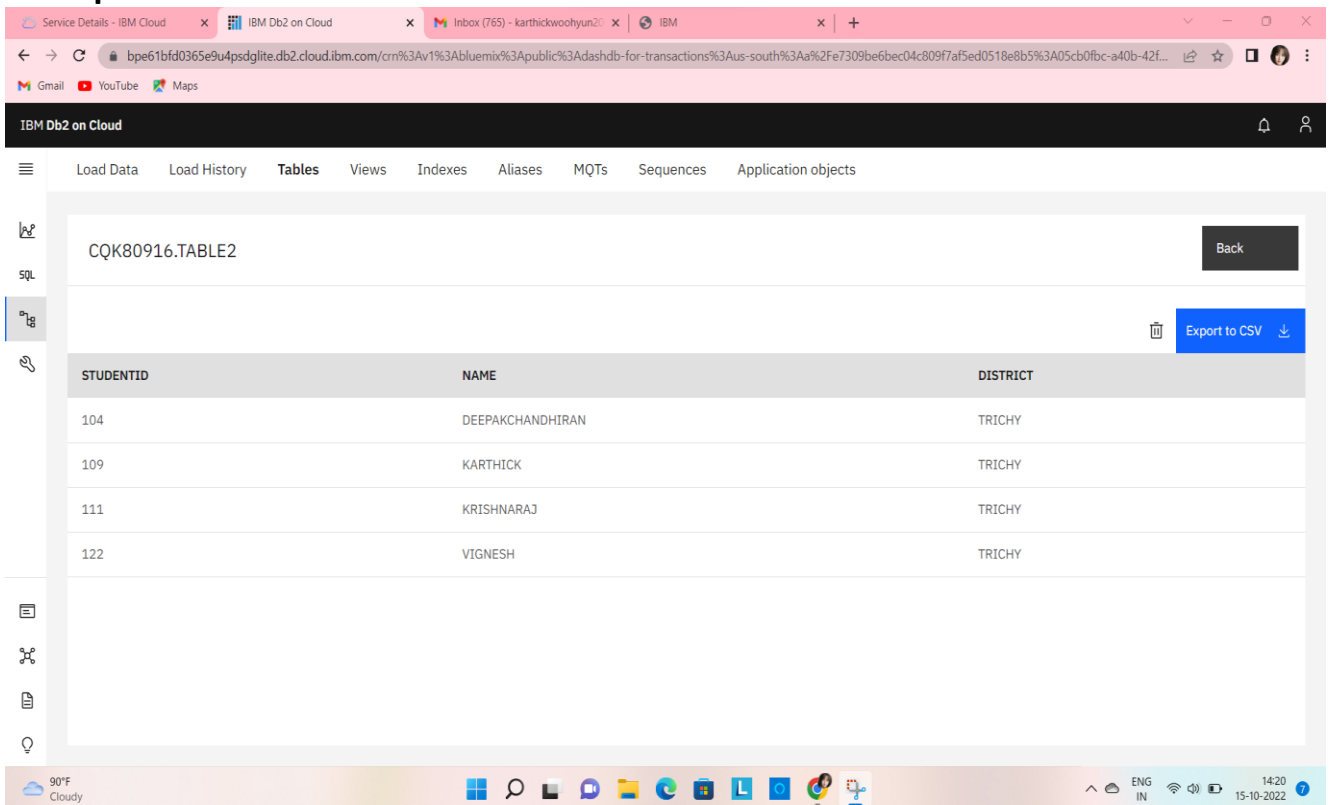
VALUES('104','DEEPAKCHANDHIRAN','trichy')

VALUES('109','KARTHICK','trichy')

VALUES('111','KRISHNARAJ','trichy')

VALUES('122','VIGNESH','trichy')

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, and the table 'CQK80916.TABLE2' is displayed. The table has three columns: 'STUDENTID', 'NAME', and 'DISTRICT'. The data is as follows:

STUDENTID	NAME	DISTRICT
104	DEEPAKCHANDHIRAN	TRICHY
109	KARTHICK	TRICHY
111	KRISHNARAJ	TRICHY
122	VIGNESH	TRICHY

The console also shows a 'Back' button and an 'Export to CSV' button. The bottom status bar indicates the system is at 90°F, Cloudy, with a date of 15-10-2022 and time of 14:20.

TABLE3

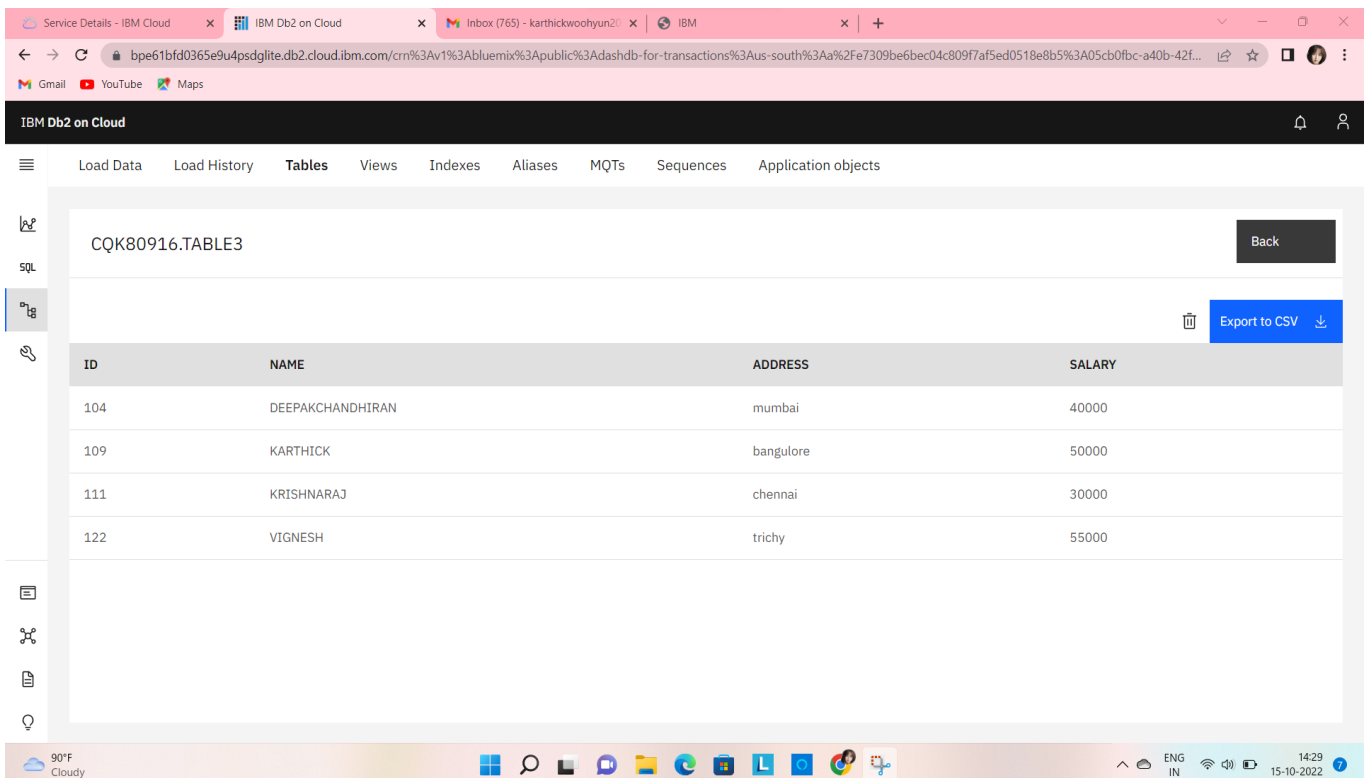
```
INSERT INTO TABLE3(id,name,address,salary)
VALUES('104','DEEPAKCHANDHIRAN','mumbai','40000')

VALUES('109','KARTHICK','bangalore','50000')

VALUES('111','KRISHNARAJ','chennai','30000')

VALUES('122','VIGNESH','trichy','55000')
```

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, and the table 'CQK80916.TABLE3' is displayed. The table has four columns: ID, NAME, ADDRESS, and SALARY. The data is as follows:

ID	NAME	ADDRESS	SALARY
104	DEEPAKCHANDHIRAN	mumbai	40000
109	KARTHICK	bangalore	50000
111	KRISHNARAJ	chennai	30000
122	VIGNESH	trichy	55000

The console also shows a 'Back' button and an 'Export to CSV' button. The bottom status bar indicates the temperature is 90°F, the weather is Cloudy, and the time is 14:29 on 15-10-2022.

TABLE4

```
INSERT INTO TABLE4(c_id,c_name,area,amount)
VALUES('4','DEEPAKCHANDHIRAN','km nagar','600')
VALUES('9','KARTHICK','anna nagar','550')
VALUES('11','KRISHNARAJ','thillai nagar','460')
VALUES('22','VIGNESH','bharathiyar nagar','800')
```

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 'CQK80916.TABLE4'. The table has four columns: 'C_ID', 'C_NAME', 'FOODNAME', and 'AMOUNT'. The data is as follows:

C_ID	C_NAME	FOODNAME	AMOUNT
4	DEEPAKCHANDHIRAN	km nagar	600
9	KARTHICK	annanagar	550
11	KRISHNARAJ	thillai nagar	460
22	VIGNESH	bharathiyar nagar	800

The interface also includes a 'Back' button, an 'Export to CSV' button, and a sidebar with icons for various database operations. The bottom status bar shows the temperature as 90°F Cloudy, system icons, and the time as 14:43 on 15-10-2022.

TABLE5

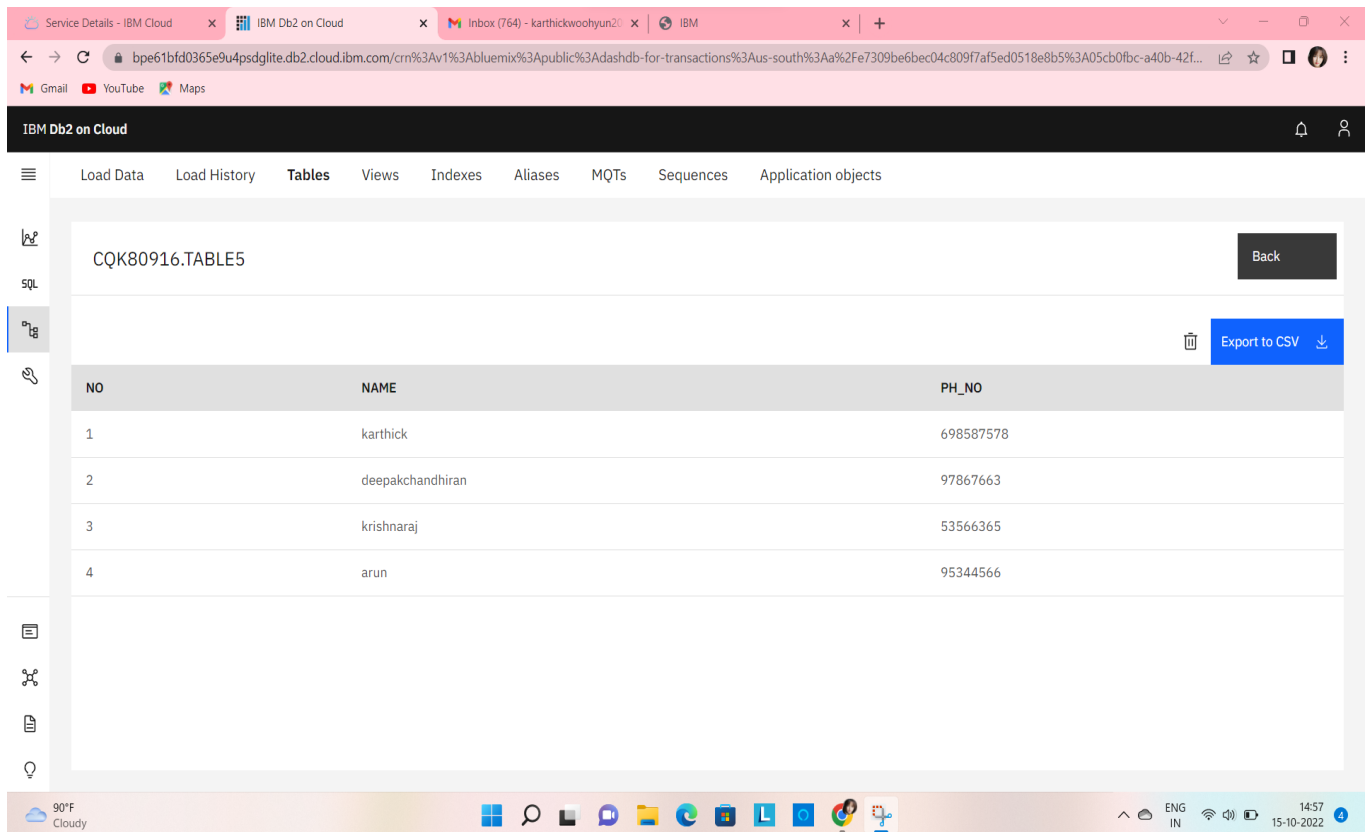
```
INSERT INTO TABLE5(no,name,ph_no)
VALUES('1','deepakchandhiran','698587578')
```

```
VALUES('2','karthick','97867663')
```

```
VALUES('3','krishnaraj','53566365')
```

```
VALUES('4','arun','95344566')
```

OUTPUT:



The screenshot displays the IBM Db2 on Cloud web interface. The browser address bar shows the URL: `bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Fe7309be6bec04c809f7af5ed0518e8b5%3A05cb0fbc-a40b-42f1...`. The page title is "IBM Db2 on Cloud". The navigation menu includes "Load Data", "Load History", "Tables", "Views", "Indexes", "Aliases", "MQTs", "Sequences", and "Application objects". The "Tables" tab is selected, showing a list of tables. The table "CQK80916.TABLE5" is highlighted. To the right of the table name are "Back" and "Export to CSV" buttons. The table structure is as follows:

NO	NAME	PH_NO
1	karthick	698587578
2	deepakchandhiran	97867663
3	krishnaraj	53566365
4	arun	95344566

The bottom of the screenshot shows the Windows taskbar with the date and time "14:57 15-10-2022".

Question-2:

Perform UPDATE,DELETE Queries in Tables:

Solution:

TABLE 5:

Before Update:

Service Details - IBM Cloud

IBM Db2 on Cloud

Inbox (764) - karthickwoohyun2

IBM

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Fe7309be6bec04c809f7af5ed0518e8b5%3A05cb0fbc-a40b-42f...

GmailYouTubeMaps

IBM Db2 on Cloud

Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

CQK80916.TABLE5

Back

Export to CSV

NO	NAME	PH_NO
1	karthick	698587578
2	deepakchandhiran	97867663
3	krishnaraj	53566365
4	arun	95344566

90°F Cloudy

Windows Taskbar Icons

System Tray

ENG IN14:5715-10-2022

After Update:

```
UPDATE TABLE5  
SETNAME='vignesh'  
WHERE NO=4
```

Output:

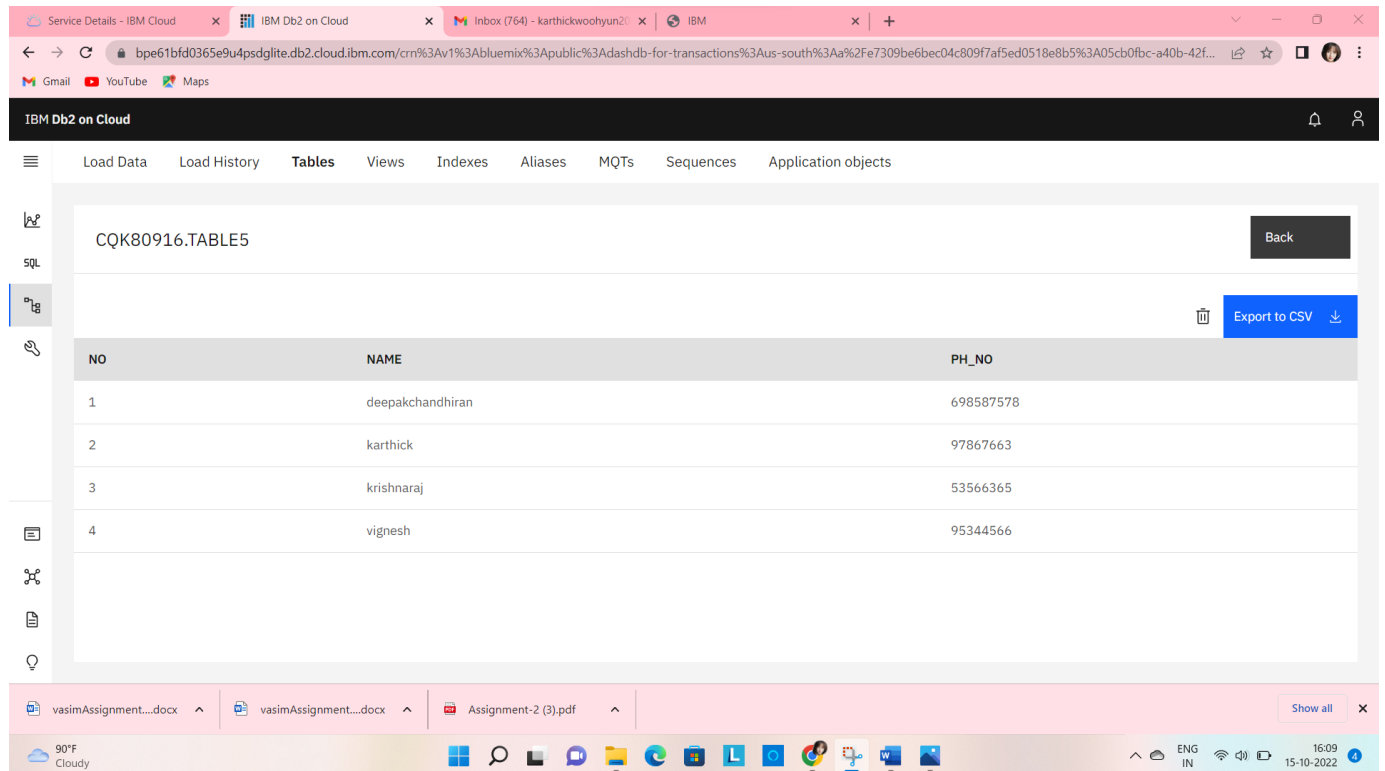
The screenshot displays the IBM Db2 on Cloud console interface. The browser address bar shows the URL: `bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Fe7309be6bec04c809f7af5ed0518e8b5%3A05cb0fbc-a40b-42f...`. The console header includes navigation tabs: Load Data, Load History, **Tables**, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The left sidebar contains icons for SQL, Tables, Views, Indexes, Aliases, MQTs, Sequences, and Application objects. The main content area displays the table `CQK80916.TABLE5. A table with 3 columns (NO, NAME, PH_NO) and 4 rows is shown. The data in the table is as follows:`

NO	NAME	PH_NO
1	deepakchandhiran	698587578
2	karthick	97867663
3	krishnaraj	53566365
4	vignesh	95344566

The bottom of the screenshot shows the Windows taskbar with the system clock indicating 16:09 on 15-10-2022.

TABLE3:

Before Delete:



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 'CQK80916.TABLE5'. The table has three columns: 'NO', 'NAME', and 'PH_NO'. The data rows are as follows:

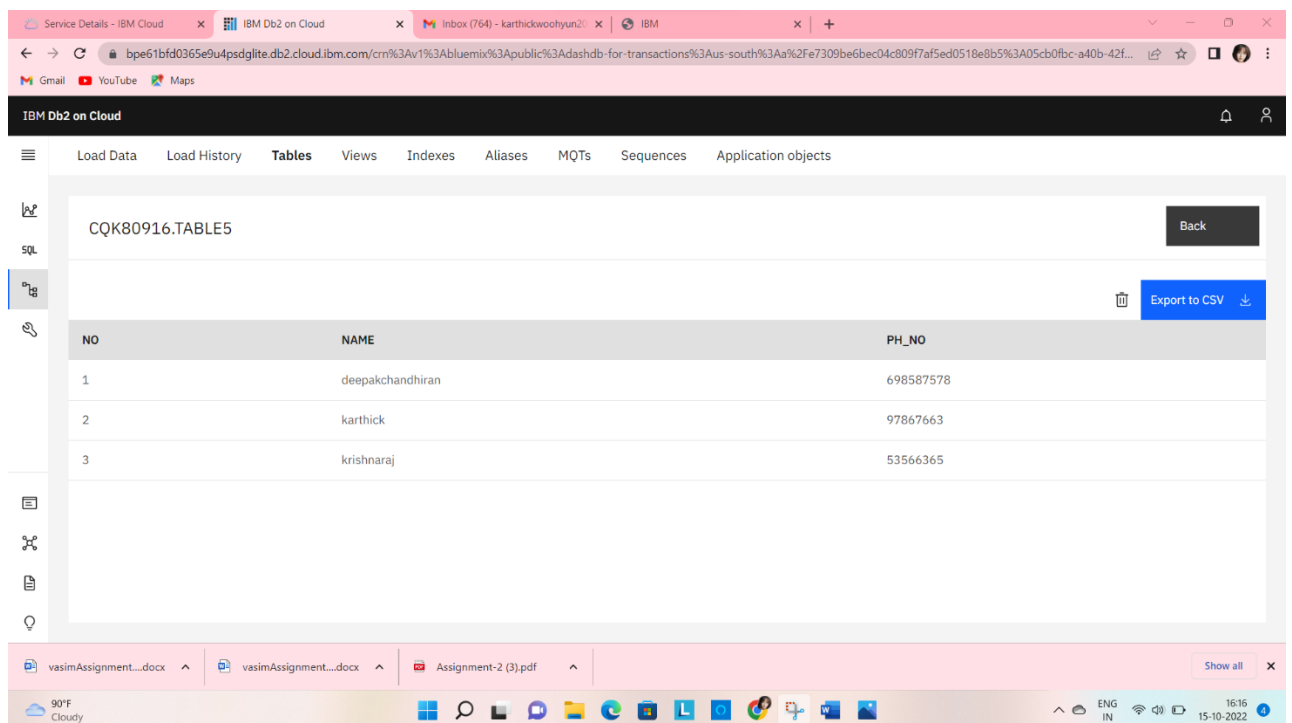
NO	NAME	PH_NO
1	deepakchandhiran	698587578
2	karthick	97867663
3	krishnaraj	53566365
4	vignesh	95344566

Below the table, there is a taskbar with open files: 'vasimAssignment....docx', 'vasimAssignment....docx', and 'Assignment-2 (3).pdf'. The system tray shows the date and time as 16:09 on 15-10-2022.

After Delete:

DELETETFROM TABLE5

WHERE NO=4



The screenshot shows the IBM Db2 on Cloud console interface after the deletion of the row where NO=4. The table 'CQK80916.TABLE5' now only contains three rows:

NO	NAME	PH_NO
1	deepakchandhiran	698587578
2	karthick	97867663
3	krishnaraj	53566365

The taskbar and system tray are identical to the previous screenshot, showing the same open files and date/time (16:16 on 15-10-2022).

Question-3:

Load excel comma separated file to DB2:

Solution:

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

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F189b4d675a5948238bfcfda754f5e...

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	SHFHHIRATHI	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)-I

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F189b4d675a5948238bfcfda754f5e...

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:

