

Assignment -2

IBM DB2

Assignment Date	16 September 2022
Student Name	Mr.S.K.Shedhubathi
Student Roll Number	814619104017
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,number)
```

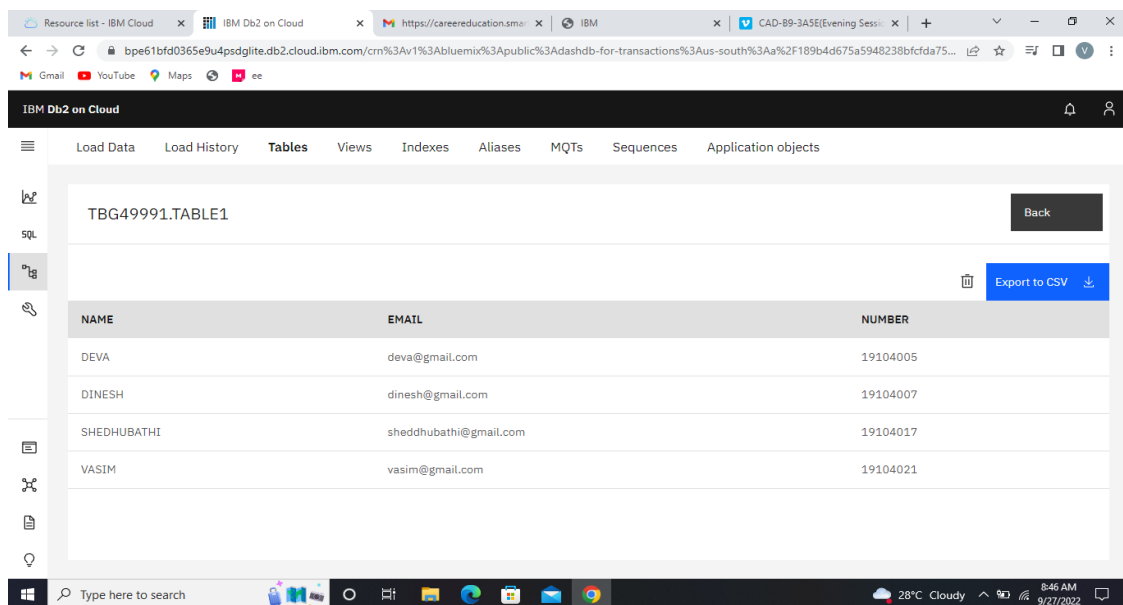
```
VALUES('DEVA','deva@gmail.com','19104005')
```

```
VALUES('DINESH','dinesh@gmail.com','19104007')
```

```
VALUES('SHEDHUBATHI','shedhubathi@gmail.com','19104017')
```

```
VALUES('VASIM','vasim@gmail.com','19104021')
```

Output:



The screenshot shows the IBM Db2 on Cloud web interface. The 'Tables' tab is selected, displaying a table named 'TBG49991.TABLE1'. The table has three columns: 'NAME', 'EMAIL', and 'NUMBER'. The data is as follows:

NAME	EMAIL	NUMBER
DEVA	deva@gmail.com	19104005
DINESH	dinesh@gmail.com	19104007
SHEDHUBATHI	shedhubathi@gmail.com	19104017
VASIM	vasim@gmail.com	19104021

TABLE2

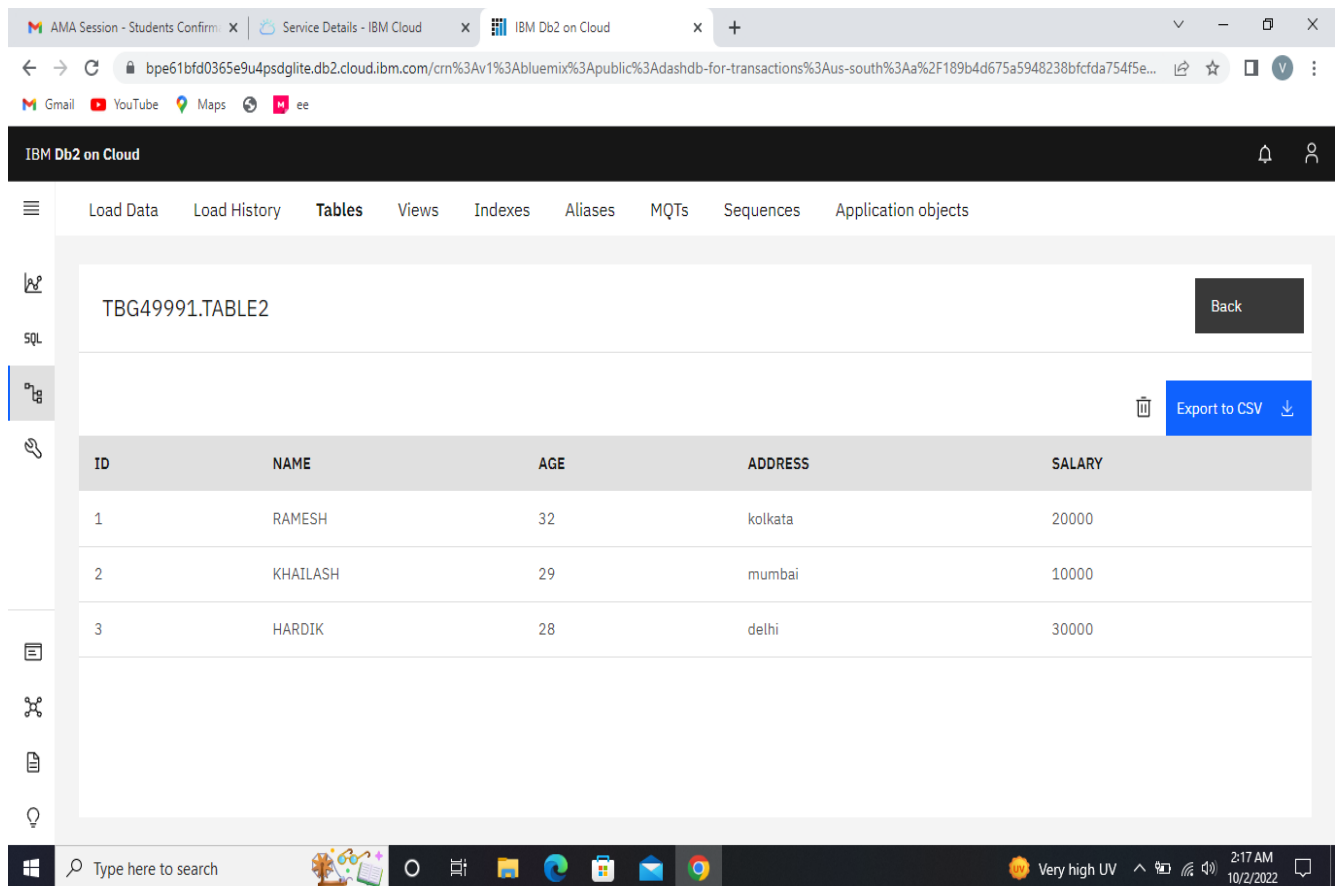
```
INSERT INTO TABLE2(id,name,age,address,salary)
```

```
VALUES('1','RAMESH','32','kolkata','20000')
```

```
VALUES('2','KHAILASH','29','mumbai','10000')
```

```
VALUES('3','HARDIK','28','delhi','30000')
```

Output:



The screenshot displays the IBM Db2 on Cloud web 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, showing a list of tables. The table 'TBG49991.TABLE2' is highlighted, and its details are shown in the main panel. The table structure is as follows:

ID	NAME	AGE	ADDRESS	SALARY
1	RAMESH	32	kolkata	20000
2	KHAILASH	29	mumbai	10000
3	HARDIK	28	delhi	30000

The interface also includes a 'Back' button and an 'Export to CSV' button. The bottom status bar shows the system time as 2:17 AM on 10/2/2022.

TABLE3

```
INSERT INTO TABLE3(s_id,name,age,dept)
```

```
VALUES('101','DEEPAK','21','CSE')
```

```
VALUES('102','KARTHICK','21','CSE')
```

```
VALUES('103','KRISHNARAJ','21','CSE')
```

```
VALUES('104','VIGNESH','21','CSE')
```

Output:

IBM Db2 on Cloud

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

TBG49991.TABLE3

Back

Export to CSV

S_ID	NAME	AGE	DEPT
101	DEEPAK	21	CSE
102	KARTHICK	21	CSE
103	KRISHNARAJ	22	CSE
104	VIGNESH	22	CSE

Type here to search

Satisfactory air 2:17 AM 10/2/2022

TABLE4

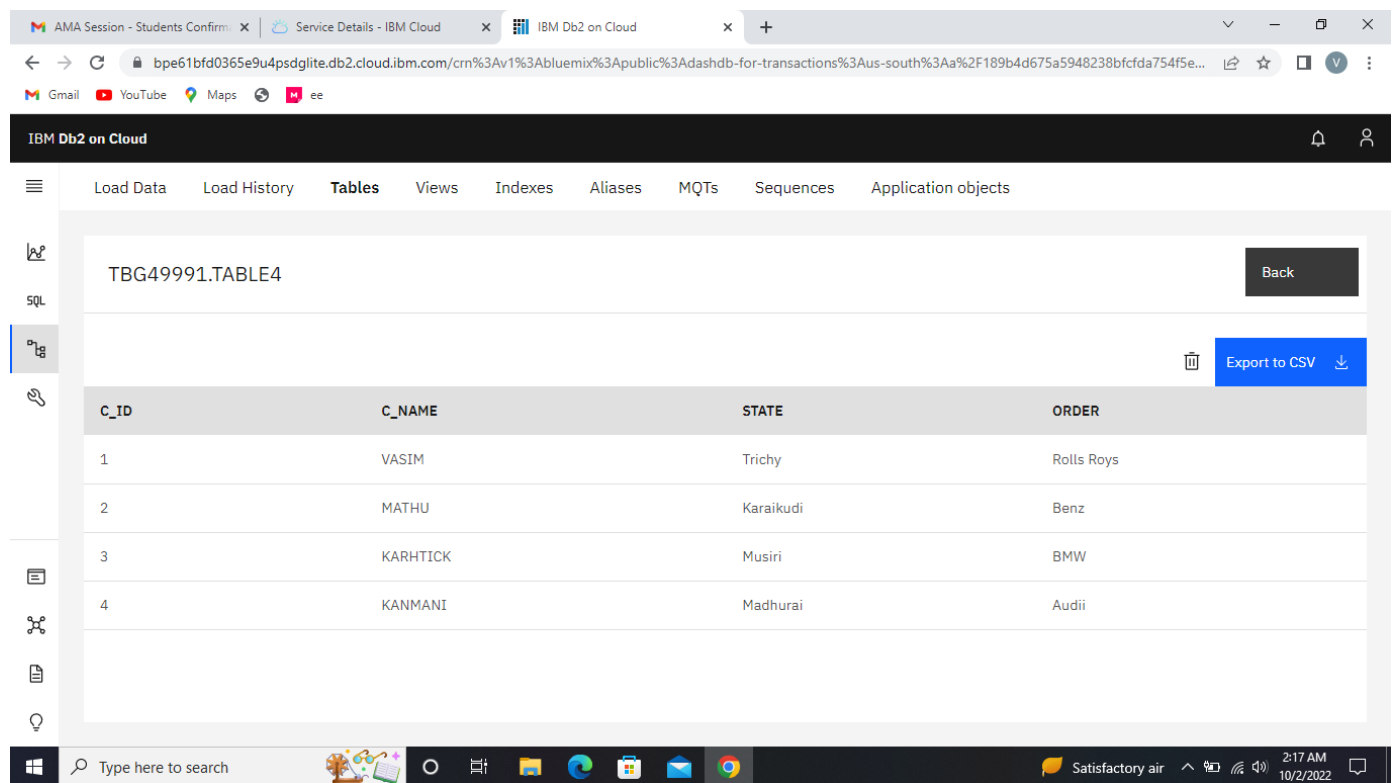
INSERT INTO TABLE4(c_id,c_name,state,order)

VALUES('1','VASIM','Trichy','Rolls Roys')

VALUES('2','MATHU','Karaikudi','Benz')

VALUES('1','KARTHICK','Musiri','BMW')

VALUES('1','KANMANI','Madhurai','Audii')



The screenshot displays the IBM Db2 on Cloud web interface. The browser's address bar shows the URL: `bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F189b4d675a5948238bfcda754f5e...`. The interface includes a top navigation bar with tabs for 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, showing a table named 'TBG49991.TABLE4'. To the right of the table name is a 'Back' button. Below the table name is a table with four columns: 'C_ID', 'C_NAME', 'STATE', and 'ORDER'. The table contains four 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, task view button, and several application icons. The system tray on the right indicates 'Satisfactory air' and the time '2:17 AM 10/2/2022'.

C_ID	C_NAME	STATE	ORDER
1	VASIM	Trichy	Rolls Roys
2	MATHU	Karaikudi	Benz
3	KARHTICK	Musiri	BMW
4	KANMANI	Madhurai	Audii

Question-2:

Perform UPDATE,DELETE Queries in Tables:

Solution:

TABLE2:

Before Update:

The screenshot shows the IBM Db2 on Cloud console interface. The browser address bar displays the URL: `bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F189b4d675a5948238bfcfda754f5e...`. The console header shows "IBM Db2 on Cloud" with a notification bell and user profile icon. The navigation bar includes 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 "TBG49991.TABLE2" with a "Back" button. Below the table name, there is a table with 5 columns: ID, NAME, AGE, ADDRESS, and SALARY. The table contains 3 rows of data. An "Export to CSV" button is visible in the top right corner of the table area.

ID	NAME	AGE	ADDRESS	SALARY
1	RAMESH	32	kolkata	20000
2	KHAILASH	29	mumbai	10000
3	HARDIK	28	delhi	30000

The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right indicates "Very high UV" and the date/time "2:17 AM 10/2/2022".

After Update:

UPDATE TABLE2

SET ADDRESS='Pune'

SET SALARY='25000'

WHERE ID=1

Output:

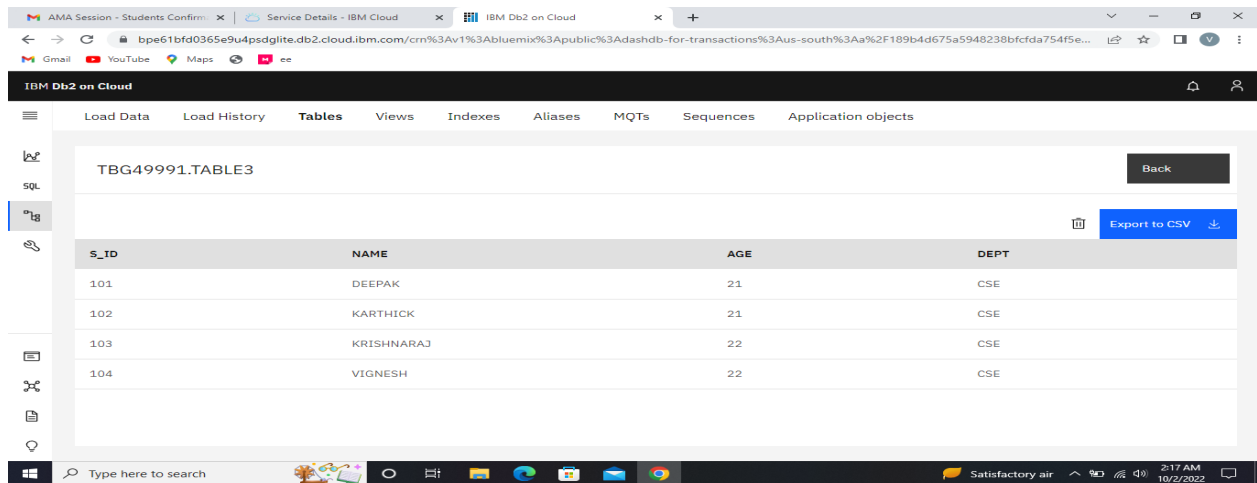
The screenshot shows the IBM Db2 on Cloud console interface. The top navigation bar includes tabs for 'Service Details - IBM Cloud', 'IBM Db2 on Cloud', 'IBM', and a video call window. The main content area is titled 'IBM Db2 on Cloud' and features a sidebar with icons for 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, displaying a table named 'TBG49991.TABLE2'. The table has five columns: 'ID', 'NAME', 'AGE', 'ADDRESS', and 'SALARY'. The data rows are as follows:

ID	NAME	AGE	ADDRESS	SALARY
1	RAMESH	32	Pune	25000
2	KHAILASH	29	mumbai	10000
3	HARDIK	28	delhi	30000

The console also includes a search bar at the bottom left and a system tray at the bottom right showing the date and time as 12:35 AM on 10/3/2022.

TABLE3:

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, displaying a table named 'TBG49991.TABLE3'. The table has four columns: 'S_ID', 'NAME', 'AGE', and 'DEPT'. The data rows are as follows:

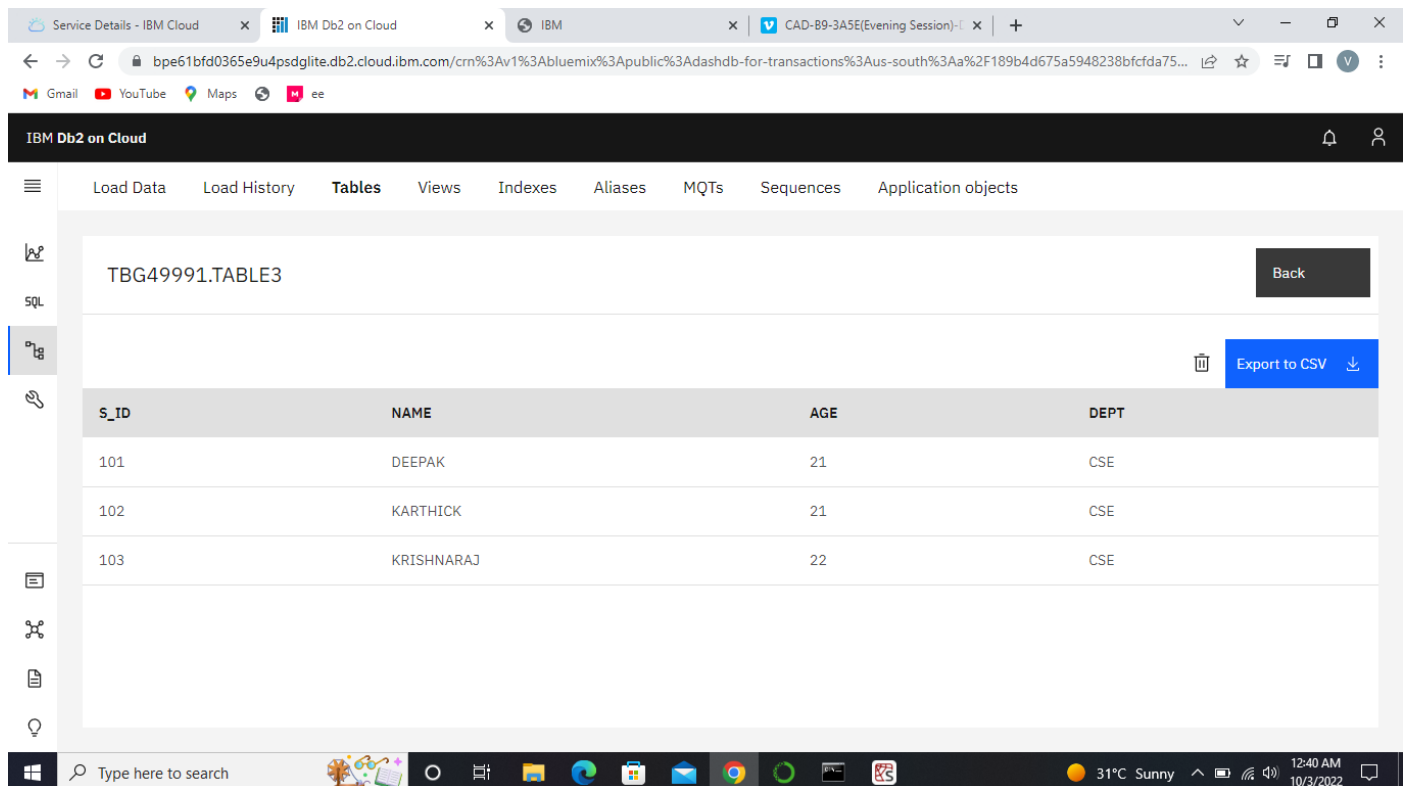
S_ID	NAME	AGE	DEPT
101	DEEPAK	21	CSE
102	KARTHICK	21	CSE
103	KRISHNARAJ	22	CSE
104	VIGNESH	22	CSE

Buttons for 'Back' and 'Export to CSV' are visible in the top right corner of the table view.

After Delete:

DELETE FROM TABLE3

WHERE S_ID=104



The screenshot shows the IBM Db2 on Cloud web interface after the deletion of the row where S_ID=104. The table 'TBG49991.TABLE3' is still displayed, but the row for VIGNESH (S_ID=104) has been removed. The data rows are now:

S_ID	NAME	AGE	DEPT
101	DEEPAK	21	CSE
102	KARTHICK	21	CSE
103	KRISHNARAJ	22	CSE

The 'Back' and 'Export to CSV' buttons remain visible in the top right corner.

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:

