

## Assignment -2

### Working with DB2

Student Name	Ramya S
Student Roll Number	711319CS125

#### Question-1:

Create User table with user with email, username, roll number, password.

#### Solution:

```
CREATE TABLE USER(  
    USER_ID INT GENERATED BY DEFAULT AS IDENTITY NOT NULL,  
    EMAIL_ID VARCHAR(150) NOT NULL,  
    USER_NAME VARCHAR(255) NOT NULL,  
    ROLL_NUMBER VARCHAR(100) NOT NULL,  
    PASSWORD VARCHAR(100) NOT NULL,  
    PRIMARY KEY (USER_ID)  
);  
INSERT INTO USER(EMAIL_ID, USER_NAME,ROLL_NUMBER,PASSWORD)  
VALUES('rk9166771@gmail.com','Rajeshkumar S','19CS123','9787234640');  
  
INSERT INTO USER(EMAIL_ID, USER_NAME,ROLL_NUMBER,PASSWORD)  
VALUES('ramachandramoorthykb@gmail.com','Ramachandramoorthy K  
B','19CS124','9912346578');
```

The screenshot displays the IBM Db2 Cloud console interface. On the left, a SQL script is shown with the following commands:

```
1 CREATE TABLE USER(  
2     USER_ID INT GENERATED BY DEFAULT AS IDENTITY NOT NULL,  
3     EMAIL_ID VARCHAR(150) NOT NULL,  
4     USER_NAME VARCHAR(255) NOT NULL,  
5     ROLL_NUMBER VARCHAR(100) NOT NULL,  
6     PASSWORD VARCHAR(100) NOT NULL,  
7     PRIMARY KEY (USER_ID)  
8 );  
9  
10 INSERT INTO USER(EMAIL_ID,USER_NAME,ROLL_NUMBER,PASSWORD)  
11 VALUES('rk9166771@gmail.com','Rajeshkumar S','19CS123','9787234640');  
12  
13 INSERT INTO USER(EMAIL_ID, USER_NAME,ROLL_NUMBER,PASSWORD)  
14 VALUES('ramachandramoorthykb@gmail.com','Ramachandramoorthy K B','19CS124','991  
15  
16 SELECT * FROM USER;  
17  
18 UPDATE USER SET EMAIL_ID='dev.rajeskumars@gmail.com' WHERE USER_NAME='Rajeshkumar S';  
19  
20 SELECT * FROM USER;  
21  
22 DELETE FROM USER WHERE USER_NAME = 'Rajeshkumar S';  
23  
24 SELECT * FROM USER;  
25  
26 DROP TABLE USER;  
27
```

On the right, the execution results for the query "SELECT \* FROM USER" are displayed. The run time is 0.008 s. The results are shown in a table with the following data:

USER_ID	EMAIL_ID	USER_NAME	ROLL_NU
1	rk9166771@gmail.com	Rajeshkumar S	19CS123
2	ramachandramoorthykb@gmail.com	Ramachandramoorthy K B	19CS124

The bottom of the screenshot shows the Windows taskbar with the date and time as 09:02 AM on 02-10-2022.

## Question-2:

Perform UPDATE, DELETE Queries with user table

### UPDATE:

#### Solution:

UPDATE USER SET EMAIL\_ID='dev.rajeshkumars@gmail.com' WHERE USER\_NAME='Rajeshkumar S';

The screenshot shows the IBM Db2 Cloud SQL interface. The left pane contains a SQL script with the following lines:

```
1 CREATE TABLE USER(  
2 USER_ID INT GENERATED BY DEFAULT AS IDENTITY NOT NULL,  
3 EMAIL_ID VARCHAR(150) NOT NULL,  
4 USER_NAME VARCHAR(255) NOT NULL,  
5 ROLL_NUMBER VARCHAR(100) NOT NULL,  
6 PASSWORD VARCHAR(100) NOT NULL,  
7 PRIMARY KEY (USER_ID)  
8 );  
9  
10 INSERT INTO USER(EMAIL_ID,USER_NAME,ROLL_NUMBER,PASSWORD)  
11 VALUES('rk9166771@gmail.com','Rajeshkumar S','19CS123','9787234640');  
12  
13 INSERT INTO USER(EMAIL_ID, USER_NAME,ROLL_NUMBER,PASSWORD)  
14 VALUES('ramachandramoorthykb@gmail.com','Ramachandramoorthy K B','19CS124','991  
15  
16 SELECT * FROM USER;  
17  
18 UPDATE USER SET EMAIL_ID='dev.rajeshkumars@gmail.com' WHERE USER_NAME='Rajeshkumar S';  
19  
20 SELECT * FROM USER;  
21  
22 DELETE FROM USER WHERE USER_NAME = 'Rajeshkumar S';  
23  
24 SELECT * FROM USER;  
25  
26 DROP TABLE USER;  
27
```

The right pane shows the execution results for the query "SELECT \* FROM USER". The run time is 0.016 s. The results are displayed in a table with the following columns: USER\_ID, EMAIL\_ID, USER\_NAME, and ROLL\_NUMBER.

USER_ID	EMAIL_ID	USER_NAME	ROLL_NUMBER
1	dev.rajeshkumars@gmail.com	Rajeshkumar S	19CS123
2	ramachandramoorthykb@gmail.com	Ramachandramoorthy K B	19CS124

### DELETE:

#### Solution:

DELETE FROM USER WHERE USER\_NAME = 'Rajeshkumar S';

Sample - Run SQL - IBM Db2 on Cloud - Google Chrome

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crr%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Fbd21be3f94a4a428088cd74f02df566%3A0bed54a8-5954-423e-b6fd-46936c4ed5ed%3A%3A/console/ind...

\* Sample x

Syntax assistant

```
1 CREATE TABLE USER(  
2   USER_ID INT GENERATED BY DEFAULT AS IDENTITY NOT NULL,  
3   EMAIL_ID VARCHAR(150) NOT NULL,  
4   USER_NAME VARCHAR(255) NOT NULL,  
5   ROLL_NUMBER VARCHAR(100) NOT NULL,  
6   PASSWORD VARCHAR(100) NOT NULL,  
7   PRIMARY KEY (USER_ID)  
8 );  
9  
10 INSERT INTO USER (EMAIL_ID, USER_NAME, ROLL_NUMBER, PASSWORD)  
11 VALUES('rk9166771@gmail.com', 'Rajeshkumar S', '19CS123', '9787234640');  
12  
13 INSERT INTO USER (EMAIL_ID, USER_NAME, ROLL_NUMBER, PASSWORD)  
14 VALUES('ramachandramoorthykb@gmail.com', 'Ramachandramoorthy K B', '19CS124', '991  
15  
16 SELECT * FROM USER;  
17  
18 UPDATE USER SET EMAIL_ID='dev.rajeshkumars@gmail.com' WHERE USER_NAME='Rajeshkumar S';  
19  
20 SELECT * FROM USER;  
21  
22 DELETE FROM USER WHERE USER_NAME = 'Rajeshkumar S';  
23  
24 SELECT * FROM USER;  
25  
26 DROP TABLE USER;  
27
```

Result - Oct 2, 2022 9:02:58 AM

Run time: 0.003 s

Result set 1

USER_ID	EMAIL_ID	USER_NAME	ROLL_NUMBER
2	ramachandramoorthykb@gmail.com	Ramachandramoorthy K B	19CS124

Run selected

Remember my selection

25°C Partly sunny

09:03 AM 02-10-2022