

Assignment -2

Working with DB2

Student Name	Mr. Dinesh S
Student Roll Number	711319CS035

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 entered in the editor, including commands to create a table, insert data, and update records. On the right, the 'Result' pane shows the output of the executed query: 'SELECT * FROM USER'. The result is displayed as a table with four columns: USER_ID, EMAIL_ID, USER_NAME, and ROLL_NUMBER. Two rows of data are shown, corresponding to the two users inserted into the table. The first row has USER_ID 1, EMAIL_ID rk9166771@gmail.com, USER_NAME Rajeshkumar S, and ROLL_NUMBER 19CS123. The second row has USER_ID 2, EMAIL_ID ramachandramoorthykb@gmail.com, USER_NAME Ramachandramoorthy K B, and ROLL_NUMBER 19CS124. The console also shows a 'Run selected' button and a 'Remember my selection' checkbox at the bottom.

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

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 console interface. On the left, a SQL script is being executed. The script includes creating a table, inserting data, and performing an update. The right pane displays the results of the 'SELECT * FROM USER' query, showing two rows of user data.

```
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='Rajeshku  
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 9:02:41 AM

Run time: 0.016 s

USER_ID	EMAIL_ID	USER_NAME	ROLL_NU
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';

The screenshot displays the IBM Db2 Cloud console interface. On the left, a SQL script is written in a text editor with line numbers 1 through 27. The script includes a CREATE TABLE statement for 'USER', followed by INSERT and UPDATE operations, and a final SELECT query. The 'SELECT * FROM USER;' query is highlighted in blue. Below the editor, there are buttons for 'Run selected' and a checkbox for 'Remember my selection'. On the right, the execution results are shown. A 'Script summary' tab is active, displaying the query 'SELECT * FROM USER' with a run time of 0.003 s. Below this, 'Result set 1' is shown as a table with four columns: USER_ID, EMAIL_ID, USER_NAME, and ROLL_NUMBER. The table contains one row of data.

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