

Assignment -2

Working with DB2

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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 perform updates/deletes. The right pane shows the execution results for the query 'SELECT * FROM USER'. The results are displayed in a table with four columns: USER_ID, EMAIL_ID, USER_NAME, and ROLL_NU. Two rows of data are shown, corresponding to the two users inserted into the table. The bottom status bar indicates the system is at 25°C, partly sunny, and the time is 09:02 AM on 02-10-2022.

USER_ID	EMAIL_ID	USER_NAME	ROLL_NU
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 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='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 9:02:41 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. The top navigation bar shows the user's profile and the current database instance. The main area is divided into two panes. The left pane contains a SQL script editor with the following code:

```
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', '991  
SELECT * FROM USER;  
  
UPDATE USER SET EMAIL_ID='dev.rajeshkumars@gmail.com' WHERE USER_NAME='Rajeshku  
SELECT * FROM USER;  
  
DELETE FROM USER WHERE USER_NAME = 'Rajeshkumar S';  
SELECT * FROM USER;  
  
DROP TABLE USER;
```

The right pane shows the execution results for the query "SELECT * FROM USER". It indicates a run time of 0.003 seconds and displays a single result set with four columns: USER_ID, EMAIL_ID, USER_NAME, and ROLL_NUMBER. The data row shows a user with ID 2, email ramachandramoorthykb@gmail.com, name Ramachandramoorthy K B, and roll number 19CS124.