

Assignment -2

Working with DB2

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Question-1:

Create a User table with a 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 editor shows a series of commands: creating a table 'USER' with columns for user ID, email, name, roll number, and password; inserting two records; and then selecting, updating, deleting, and finally dropping the table. The right-hand pane shows the execution results for the command 'SELECT * FROM USER'. It indicates a run time of 0.008 seconds and displays a table with two rows of data. The bottom status bar shows the system time as 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. The SQL editor on the left contains the following code:

```
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('zk9166771@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
```

The right pane shows the results of the query executed at 09:02:41 AM on Oct 2, 2022. The query was "SELECT * FROM USER" with a run time of 0.016 s. The result set contains two rows:

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 shows the IBM Db2 Cloud console interface. The SQL editor on the left contains the following code:

```
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('zk9166771@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
```

The right pane shows the results of the query executed at 09:02:58 AM on Oct 2, 2022. The query was "SELECT * FROM USER" with a run time of 0.003 s. The result set contains one row:

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