

## Assignment 2

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**Project:** Personal Expense Tracker

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### **CRUD OPERATION IN IBM DB2:**

#### **1. Create Table:**

```
CREATE TABLE assignment_user ( id INT NOT NULL PRIMARY
                                KEY GENERATED ALWAYS AS
                                IDENTITY (START WITH 1 INCREMENT BY 1),
                                email VARCHAR(50) NOT NULL UNIQUE,
                                password_hash VARCHAR(64) NOT NULL,
                                username VARCHAR(50) NOT NULL UNIQUE,
                                rollno VARCHAR(15) NOT NULL UNIQUE
                                );
```

#### **2. Insert:**

```
INSERT INTO assignment_user (email, password_hash, username,
                              rollno) VALUES ('suresh@gmail.com', 'suresh@12', 'suresh',
                              '19BIT222');
```

#### **3. Read:**

```
SELECT * FROM assignment_user;
```

#### **4. Update:**

```
UPDATE assignment_user SET password_hash = 'suresh@14'
WHERE rollno = '19BIT222';
```

#### **5. Delete:**

```
DELETE FROM assignment_user WHERE rollno = '19BIT222';
```

## Screenshot:

The screenshot shows a SQL IDE window titled "assignment". The script contains the following SQL statements:

```
1 CREATE TABLE assignment_user (  
2 id INT NOT NULL PRIMARY KEY GENERATED ALWAYS AS IDENTITY (START WITH 1 INCREMENT BY 1),  
3 email VARCHAR(50) NOT NULL UNIQUE,  
4 password_hash VARCHAR(64) NOT NULL,  
5 username VARCHAR(50) NOT NULL UNIQUE,  
6 rollee VARCHAR(15) NOT NULL UNIQUE,  
7 )  
8  
9 INSERT INTO assignment_user (email, password_hash, username, rollee) VALUES ('suresh@gmail.com', 'suresh@123', 'suresh', '1981T222');  
10  
11 SELECT * FROM assignment_user;  
12  
13 UPDATE assignment_user SET password_hash = 'suresh@54' WHERE rollee = '1981T222';  
14  
15 DELETE FROM assignment_user WHERE rollee = '1981T222';
```

The "History" tab is active, showing a table with the following data:

Script	Date	Status	Runtime
INSERT INTO assignment_user (email, password_hash, username, rollee) VALUES ('suresh@gmail.com', 'suresh@123', 'suresh', '1981T222');		✓	0.812 s
SELECT * FROM assignment_user;		✓	0.006 s
UPDATE assignment_user SET password_hash = 'suresh@54' WHERE rollee = '1981T222';		✓	0.067 s
DELETE FROM assignment_user WHERE rollee = '1981T222';		✓	0.067 s

## Screenshot of flask app:





