

Assignment 2

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Project: Personal Expense Tracker

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@12', '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@12', '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:



