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/*
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Executive-M.Tech AI & DSE
Home work 3
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*/
================================================================================

1) create a table having username(primary key) and password attribute. take 2 records
    CREATE table login( username varchar(20) NOT NULL PRIMARY KEY, password varchar(20) );
    INSERT into login values("user1", "user1pass");
    INSERT into login values("ram_1", "new@2pass");

2) update the password of user 2.
    UPDATE login set password = "ram_new_pass" where username = "ram_1";

3) update username of user 2.
    UPDATE login set username = "ram_2" where username = "ram_1";

4) attempt: update username of user 2 similar to user 1.
    UPDATE login set username = "user1" where username = "ram_1"
         Error: could not execute statement due to a constraint failure (19 UNIQUE constraint failed:
login.username

5) delete the user 2.
    DELETE FROM login WHERE username = "ram_2";

6) ADD new attribute 'full_name' having varchar(20) datatype in the table.
    ALTER TABLE login ADD "full_name" varchar(20);

7) Insert values to full_name attribute.
    UPDATE login set full_name = "User1 Full Name" where username = "user1";

8) Rename attribute 'full_name' to 'f_name'.
    ALTER TABLE login RENAME COLUMN "full_name" to "f_name";
```

9) create another table login2 with username(refering from previous table), age, institute attributes.

```
CREATE TABLE login_1 (
username varchar(20) NOT NULL,
age int,
institute varchar(30),
PRIMARY KEY (username),
FOREIGN KEY (username) REFERENCES login(username) );

#inserted few data to both the tables:

INSERT into login values("ram_1", "ram@passw0rd", "Ram Kumar");
INSERT into login values("Sahil", "sahile@password", "Sahil Kumar");
INSERT into login values("Raju", "r@jU123", "Raju Singh");

INSERT into login_1 values("user1", 22, "IITP");
INSERT into login_1 values("ram_1", 35, "IITD");
INSERT into login_1 values("Sahil", 29, "IITP");
INSERT into login_1 values("Raju", 19, "IITPK");
```

10) Print username, f_name, age, institute.

```
Select login.username, login.f_name,  login_1.age,  login_1.institute  FROM login natural join login_1 ;
```

11) print username, f_name, age having age greater than 25.

```
Select login.username, login.f_name,  login_1.age  FROM login natural join login_1 where login_1.age > 25 AND
login_1.age < 40;
```

12) delete attribute 'f_name' from the table.

```
ALTER TABLE login DROP f_name;
```

13) drop the table.:

```
#We need to drop the login_1 first

DROP TABLE login_1;
DROP TABLE login;
```