

Practice question Practice set 2:

```
CREATE TABLE Customers (  
    CustomerID PRIMARY KEY AUTO INCREMENT,  
    FirstName VARCHAR (50),  
    LastName VARCHAR (50),  
    Email VARCHAR (100) UNIQUE,  
    PhoneNumber VARCHAR (15),  
    Address VARCHAR (200)  
);
```

```
CREATE TABLE Accounts (  
    AccountNumberINT PRIMARY KEY,  
    CustomerID INT,  
    AccountType VARCHAR (20),  
    Balance DECIMAL (10,2),  
    DateCreated DATE,  
    FOREIGN KEY (CustomerID) REFERENCES Customers (CustomerID)  
);
```

```
INSERT INTO (CustomerID, FirstName, LastName, Email,  
    PhoneNumber, Address)
```

VALUES

```
(1, 'John', 'Doe', 'John.doe@email.com', '1234567890',  
    '123 Main St, Cityville')  
(2, 'Jane', 'Smith', 'Jane.smith@email.com', '0987654321',  
    '456 Elm St, Townville')  
(3, 'Mike', 'Johnson', 'mike.johnson@email.com', '1122334455',  
    '789 Oak St, Villageville');
```



```
INSERT INTO Account (AccountNumber, CustomerID, AccountType,  
Balance, DateCreated)
```

VALUES

```
(1001, 1, 'saving', 5000.00, '2023-01-15')
```

```
(1002, 1, 'checking', 1500.00, '2023-02-20')
```

```
(1003, 2, 'saving', 2000.00, '2023-03-01')
```

```
(1004, 3, 'checking', 3000.00
```

Update

a. UPDATE Account

```
SET Balance = 5500.00
```

```
WHERE AccountNumber = 1001;
```

b. UPDATE Customer

```
SET Email = 'jane.smith@newdomain.com'
```

```
WHERE CustomerID = 2;
```

c. UPDATE Accounts

```
SET Balance = Balance * 1.10
```

```
WHERE AccountType = 'saving';
```

d. SELECT Customers.CustomerID, Customers.FirstName,

Customers.LastName, Accounts.Balance

```
FROM Customers
```

```
JOIN Accounts ON Customers.CustomerID = Accounts.CustomerID
```

```
WHERE Accounts.AccountType = 'saving';
```


e. SELECT Customers.CustomerID, Customers.FirstName, Customers.LastName, Accounts.Balance
FROM Customers
JOIN Accounts ON Customers.CustomerID = Accounts.AccountID
WHERE Accounts.Balance > 5000 AND Accounts.AccountType = 'checking';

f. SELECT CustomerID, AccountNumber, AccountType, Balance
FROM Accounts
WHERE Balance < 2000;

DELETE

a. DELETE FROM Accounts
WHERE AccountNumber = 1002;

b. DELETE FROM Customers
WHERE PhoneNumber LIKE '123%';

c. DELETE FROM Accounts
WHERE DataCreated < '2023-02-01';