Update - Text lecture

In previous lectures we learned about select like below:

```
SELECT title
   release year
FROM movies
WHERE release year IS NULL;
If we want to update or change the data, we use UPDATE instead of select:
Use a select to find what to update
SELECT *
FROM movies
WHERE Title = 'Fight Club';
Then run an update on the same selection criteria:
UPDATE movies
SET ReleaseYear = 1999
WHERE Title = 'Fight Club';
We can update multiple rows and multiple columns at the same time:
SELECT *
FROM movies
WHERE title IN ('DodgeBall: A True Underdog Story'
         ,'Along Came Polly'
         ,'Anchorman:The Legend of Ron Burgundy');
Rows matched: 3 Changed: 3
If you run this again, it will say matched: 3, Changed: 0
Use SELECT * to verify your WHERE before updating a table.
```

Update based on comparison - Text lecture

```
Let's create some data to work with:
```

,primary key (CustID));

CREATE TABLE CustBal (CustID int NOT NULL AUTO_INCREMENT ,CheckingBalance DECIMAL(8,2) ,SavingsBalance DECIMAL(8,2) ,CreditCardBalance DECIMAL(8,2) ,CreditCardTotalCredit DECIMAL(8,2) ,CreditCardAvailableCredit DECIMAL(8,2) ,TotalBalance DECIMAL(8,2) ,ActiveStatus boolean

```
INSERT INTO CustBal (CheckingBalance
            ,SavingsBalance
            .CreditCardBalance
            ,CreditCardTotalCredit
            ,CreditCardAvailableCredit
            ,TotalBalance
            ,ActiveStatus)
VALUES (835.27, 2223.01, 123.09, 1000.00, NULL, NULL, 1)
   (165.27, 1223.01, 0.00, 1000.00, NULL, NULL, 1)
   ,(899.27, 3223.01, 9125.09, 20000.00, NULL, NULL, 1)
   ,( 0.00 , 0.00 , 00.00 , 0.00 , NULL , NULL , 0)
   (123.27, 4223.01, 123.00, 800.00, NULL, NULL, 1)
   ,(65.00,6223.01,21123.09,20000.00,NULL,NULL,1)
   (315.90, 7223.01, 0.00, 21000.00, NULL, NULL, 1)
   (992.22, 1923.01, 20000.00, 20000.00, NULL, NULL, 1)
   ,(75.21, 4223.01, 1123.51, 15000.00, NULL, NULL, 1)
   ,(165.22, 0.01, 15123.08, 16000.00, NULL, NULL, 0)
   ,(455.23, 0.00, 4123.00, 5000.00, NULL, NULL, 1);
Let's say we wanted a process to update the customer accounts
1) Use Select Statements to plan out what you want to do
SELECT CustID
   ,CreditCardTotalCredit
   ,CreditCardBalance
                                     AS OldCreditCardAvailableCredit
   ,CreditCardAvailableCredit
   ,CreditCardTotalCredit - CreditCardBalance AS
NewCreditCardAvailableCredit
FROM CustBal
WHERE ActiveStatus = 1;
SELECT CustID
   ,CheckingBalance
   ,SavingsBalance
   .CreditCardBalance
   .TotalBalance
                                        AS OldTotalBalance
   ,CheckingBalance + SavingsBalance - CreditCardBalance AS
NewTotalBalance
FROM CustBal
WHERE ActiveStatus = 1;
```

We could have combined them into one larger select, but breaking it apart makes it easier to read in the terminal window.

2) Put it together into an update statement
UPDATE CustBal
SET CreditCardAvailableCredit = CreditCardTotalCredit - CreditCardBalance
,TotalBalance = CheckingBalance + SavingsBalance CreditCardBalance
WHERE ActiveStatus = 1;

Delete - Text lecture

WHERE ActiveStatus = 0;

Delete is just like Select but instead of returning rows with information, it removes them from the table. As a rule, always use a select statement to verify what you are about to remove.

Example, remove all of the inactive accounts from our CustBal table:

First, identify the inactive accounts:

SELECT *

FROM CustBal

WHERE ActiveStatus = 0;

To delete, replace SELECT * with DELETE and execute;

DELETE

FROM CustBal