**Advanced SQL – Week 12**

DECLARE Defines a **new** cursor.

OPEN Opens and populates the cursor by executing the **SELECT** statement defined by the cursor.

FETCH Retrieves a row **from** the cursor.

CLOSE Closes the cursor.

DEALLOCATE Deletes the cursor definition and releases all system resources associated with the cursor.

-- Step 1 Define any variable you intend to use

DECLARE @AccountID INT

DECLARE @getAccountID CURSOR

-- Step 2 Write your query and stick the results in the cursor

SET @getAccountID = CURSOR FOR

SELECT EMPNO

FROM EMP

-- Step 3 Open the cursor and read the first record

OPEN @getAccountID

FETCH NEXT

FROM @getAccountID INTO @AccountID

-- Step 4 Loop through the cursor reading each line until they are no more

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @AccountID

FETCH NEXT

FROM @getAccountID INTO @AccountID

END

-- Step 5 Close the cursor and clear the memory it used

CLOSE @getAccountID

DEALLOCATE @getAccountID

[**http://www.kodyaz.com/articles/cursor.aspx**](http://www.kodyaz.com/articles/cursor.aspx)

[**http://msdn.microsoft.com/en-us/library/ms180169.aspx**](http://msdn.microsoft.com/en-us/library/ms180169.aspx)

[**http://www.kodyaz.com/articles/t-sql-cursor-example-code.aspx**](http://www.kodyaz.com/articles/t-sql-cursor-example-code.aspx)

[**http://msdn.microsoft.com/en-us/library/aa172595(SQL.80).aspx**](http://msdn.microsoft.com/en-us/library/aa172595(SQL.80).aspx)

**These are important for the homework**

[**http://www.eggheadcafe.com/software/aspnet/31208449/multiple-rows-into-multiple-columns.aspx**](http://www.eggheadcafe.com/software/aspnet/31208449/multiple-rows-into-multiple-columns.aspx)

[**http://www.sqlteam.com/article/cursors-an-overview**](http://www.sqlteam.com/article/cursors-an-overview)

**HOMEWORK**

1. Modify todays example to print the employee number and name. I want you to print the employee number such that odd numbers are to the left and even numbers are to the right.

12311 John Doe

12312 Jane Smith

1. Using the Bowling League Database. Produce a list of the players on each team in team and player number order such that you skip a blank line in between the list for each team. Show the Team number and name and the player number and name.

**Hints for Homework Week 11**

**--Step 1** Create a table of Agregated Scores by Date\_Bowled, Team\_ID, Team\_Name in a temporary file

**--Step 2** Use the schedule and the table you created in Step 1 (2 times) to align the team information onto one row for both teams in a temporary file **(Hint: you should not be calculating anything here just joining two vertical records from step 1 into 1 horizontal record)**

**--Step 3** Use the table you created in Step 2 to assign the points, remember to code for ties and put the results into a temporary file **(Hint: your records are still horizontal here)**

**--Step 4** Build points table for all weeks and teams into a temporary table that you will use for futher assignments **(Hint: you want your records to be vertical here now that the points are calculated)**