**Advanced SQL – Week 8**

* A [stored procedure](http://msdn.microsoft.com/en-us/library/aa174792(v=sql.80).aspx#sql:stored_procedure) is a group of Transact-SQL statements compiled into a single execution plan.
* Stored procedures improve performance.
* Stored procedures shield users from needing to know the details of the tables in the database

**Stored Procedure Example**

This example shows passing a value into the procedure as Input

CREATE PROCEDURE Filter1 @Deptno int

AS

SELECT \*

FROM EMP

WHERE Deptno = @Deptno

GO

EXEC Filter1 @Deptno = 30

This simple stored procedure example illustrates three ways stored procedures can return data:

1. It first issues a SELECT statement that returns a result set summarizing the order activity for the stores in the **sales** table.
2. It then issues a SELECT statement that fills an output parameter.

USE Northwind

GO

DROP PROCEDURE OrderSummary

GO

CREATE PROCEDURE OrderSummary @MaxQuantity INT OUTPUT AS

-- SELECT to return a result set summarizing

-- employee sales.

SELECT Ord.EmployeeID, SummSales = SUM(OrDet.UnitPrice \* OrDet.Quantity)

FROM Orders AS Ord

JOIN [Order Details] AS OrDet ON (Ord.OrderID = OrDet.OrderID)

GROUP BY Ord.EmployeeID

ORDER BY Ord.EmployeeID

-- SELECT to fill the output parameter with the

-- maximum quantity from Order Details.

SELECT @MaxQuantity = MAX(Quantity) FROM [Order Details]

GO

-- Test the stored procedure.

DECLARE @MaxQuantity INT

-- Execute the procedure, which returns

-- the result set from the first SELECT.

EXEC OrderSummary @MaxQuantity OUTPUT

PRINT 'The size of the largest single order was: ' +

CONVERT(CHAR(6), @MaxQuantity);

Review more information at <http://www.mssqltips.com/tutorial.asp?tutorial=168>

HOMEWORK for Week 8

* Publish the rest of your scores to the whole class, you need 17 weeks in total, make sure to send them out as soon as possible. Everyone should come back with a fully loaded database ready to start moving forward.
* Write a Stored Procedure that takes two variables as input, the Team Number and the Date. It should print a report listing of all teams and players for that Date in Team, Player order

**ENJOY SPRING BREAK!**