**Query Syntax: String and Date Functions (Week 7)**

**String Functions**

LEN() - returns the length of a string

select len(ColumnName1.1) 'AliasName' from TableName1

select ColumnName1.1 from TableName1 where len(ColumnName1.1) = (Insert Value)

LEFT() - returns a certain # of characters from the left side

select left(ColumnName1.1, (# of Characters) ) 'AliasName' from TableName1

RIGHT() - returns a certain # of characters from the right side

select right(ColumnName1.1, (# of Characters) ) 'AliasName' from TableName1

SUBSTRING() - takes a certain # of characters from a starting point

select substring(ColumnName1.1, (Starting Point) , (# of Characters) ) from TableName1

UPPER() - returns uppercase characters

LOWER() - returns lowercase characters

LTRIM() - trims spaces on the left

RTRIM() - trims spaces on the right

REVERSE() - reverses a string

**Date Functions**

GETDATE () returns the system date

DATEADD (xx, n, date1) returns a new date adding the number of xx to date1

n may be negative

DATEDIFF (xx, date1, date2) returns the number of xx from date1 (older) to

date2 (newer) – can return negative numbers

DATENAME (xx, date1) returns a string representation of the xx of date1 DATEPART (xx, date1) returns an integer representation of the xx of date1

YEAR (date1) returns the year portion of date1,

same functionality as DATEPART (yy, date1)

MONTH (date1) returns the month portion of date1,

same functionality as DATEPART (mm, date1)

DAY (date1) returns the day portion of date1,

same functionality as DATEPART (dd, date1)

NOTE: xx represents the datepart from the table below.

**Datepart Abbreviation Minimum Maximum**

Year yy 1753 9999

Quarter qq 1 4

Month mm 1 12

Week wk 1 53

Day of year dy 1 366

WeekDay dw 1 (Sun.) 7 (Sat.)

Day dd 1 31

Hour hh 0 23

Minute mi 0 59

Second ss 0 59

Millisecond ms 0 999