Builtin Functions in SQL

1. GETDATE()

GETDATE() is very common used method which returns exact date time from the system. It does not accept any parameter. Just call it like simple function.

Declare @Date datetime set @Date = (SELECT GETDATE()); Print @Date

Output: Aug 15 2009 9:04PM

2. DATEADD()

DATEADD() is used to add or subtract datetime. Its return a new datetime based on the added or subtracted interval.

General Syntax: DATEADD(datepart, number, date)

datepart is the parameter that specifies on which part of the date to return a new value. Number parameter is used to increment datepart.

Declare @Date datetime set @Date = (SELECT GETDATE()); print @Date -- Print Current Date -- Adding 5 days with Current Date SELECT DATEADD(day, 5,@Date) AS NewTime

Output: Aug 15 2009 9:19PM

NewTime

2009-08-20 21:19:15.170

3. DATEPART()

DATEPART() is used when we need a part of date or time from a datetime variable. We can use DATEPART() method only with select command.

Syntax : DATEPART(datepart, date)

-- Get Only Year

SELECT DATEPART(year, GETDATE()) AS 'Year'

-- Get Only Monthj

SELECT DATEPART(month, GETDATE()) AS 'Month'

-- Get Only hour

SELECT DATEPART(hour, GETDATE()) AS 'Hour

Output: Year
-----2009
Month
----8
Hour

21

4. DATEDIFF()

 $DATEDIFF () \ is \ very \ common \ function \ to \ find \ out \ the \ difference \ between \ two \ DateTime \ elements.$

Syntax: DATEDIFF(datepart, startdate, enddate)

-- Declare Two DateTime Variable

Declare @Date1 datetime

Declare @Date2 datetime

-- Set @Date1 with Current Date

set @Date1 = (SELECT GETDATE());

-- Set @Date2 with 5 days more than @Date1

set @Date2 = (SELECT DATEADD(day, 5,@Date1))

-- Get The Date Difference

SELECT DATEDIFF(day, @Date1, @Date2) AS DifferenceOfDay

Output: DifferenceOfDay

5. DATENAME()

DATENAME() is very common and most useful function to find out the date name from the datetime value.(dw=day, day=date, year=year, month=month)

-- Get Today

SELECT DATENAME(dw, getdate()) AS 'Today Is'

-- Get Mont name

SELECT DATENAME(month, getdate()) AS 'Month'

Output: Today Is

Saturday

Month

August

6. **DAY**()

DAY() is used to get the day from any date time object.

SELECT DAY(getdate()) AS 'DAY'

Output: DAY ----- 15

7. MONTH()

SELECT MONTH(getdate()) AS 'Month'

Output: Month ----- 8

8. YEAR()

SELECT YEAR(getdate()) AS 'Year'

Output : Year -----2009