Date Functions

1. Write a query to display the first day of the month (in datetime format) four months before the current month.

Sample current date: 2017-09-03   
Expected result: 2017-05-01

select

CONCAT(DATEPART(YEAR,GETDate()),'-',

format(dateadd(month,-4,'2017-09-03'),'MM') ,'-',

format(dateadd(day,-2,'2017-09-03'),'dd'))

1. Write a query to get the last day of the current year.

select concat('31','/','12','/',cast (datepart(year,getdate()) as char))

1. Write a query to get the distinct Mondays from hire\_date in employees tables.

select last\_name,first\_name,[employee\_id]

from [HR].[employees]

where datename(weekday,hire\_date)='Monday'

1. Write a query to get the firstname, lastname who joined in the month of June.

select first\_name,last\_name

from [HR].[employees]

where datename(MM,HIRE\_DATE)='jUNE';

1. Write a query to get the years in which more than 10 employees joined.

SELECT DATEPART(YEAR,[hire\_date] )

FROM [HR].[employees]

GROUP BY DATEPART(YEAR,[hire\_date] )

HAVING COUNT( DATEPART(YEAR,[hire\_date] ))>10

1. Write a query to get department name, manager name, and salary of the manager for all managers whose experience is more than 5 years.

select d.[department\_name],concat(m.[first\_name],

m.[last\_name])as manager\_name,m.salary from

[HR].[employees] e join [HR].[employees] m

on e.[employee\_id]=m.[manager\_id] join

[HR].[departments] d

on d.[department\_id]=e.[department\_id]

where datediff(year,m.[hire\_date],getdate())>5;

1. Write a query to get the department ID, year, and number of employees joined in each year.

select [department\_id],datepart(year,[hire\_date]),count(datepart(year,[hire\_date]))

from [HR].[employees]

group by [department\_id],datepart(year,[hire\_date])

1. Write a query to get the firstname, current date, joining date and difference between current date and joining date in days.

SELECT FIRST\_NAME,

GETDATE() ,

HIRE\_DATE ,DATEDIFF(DAY,HIRE\_DATE ,GETDATE()) AS DIFF

FROM [HR].[employees]

1. Display different DATE formats

**INPUT** : 2008-07-15 00:00:00.000

**EXPECTED OUTPUT DATE FORMATS :**

d1 d2 d3 d4

2008/07/15 Tuesday,Jul 2008 20080715 15 Jul 2008 00:00:00:000

D1

select format (cast('2008-07-15 00:00:00.000' as date),'yyyy/MM/dd')

D2

SELECT FORMAT(cast('2008-07-15 00:00:00.000' as

date),'ddd,MMM yyyy')

D3

select format (cast('2008-07-15 00:00:00.000' as date),'yyyyMMdd')

D4

select format (cast('2008-07-15 00:00:00.000' as date),'dd MMM yyyy HH:mm:ss:fff')