**Date functions:**

select Employee\_Name,DOB from HR\_Database

select Employee\_Name,DOB, DATENAME(WEEKDAY,DOB) as [Weekday] from HR\_Database where DATENAME(WEEKDAY,DOB) = 'Wednesday'

select Employee\_Name,DOB, DATENAME(MONTH,DOB) as [Weekday] from HR\_Database where DATENAME(MONTH,DOB) = 'August'

select Employee\_Name,DOB from HR\_Database where datepart(year,DOB) = 1973

select Employee\_Name,DOB, cast(DATEADD(day,30, DOB) as date) as [30\_days\_after] from HR\_Database

select Employee\_Name,DOB,[30\_days\_after], DATEDIFF(day,DOB, [30\_days\_after]) as date\_difference from ( select Employee\_Name,DOB, cast(DATEADD(day,30, DOB) as date) as [30\_days\_after] from HR\_Database ) t

-------------------------------------------------------------------------------------

**Group by function**

select position, sex, [State\_Code], count([EmpID]) as Employee\_count, count([State\_Code]) as people\_from\_State from [HR\_Database] group by position, sex, [State\_Code] order by position

**Pivot Operation with Group by function**

select Position, sum(YES) as YES, sum(NO) as NO from (

select position, Yes, No from [HR\_Database]

pivot ( count(HispanicLatino)

for HispanicLatino in (Yes, No) ) as p ) t Group by Position order by Position

**SQL Index:**

create index IN\_EmpID on [Teaching\_SQL].[dbo].[HR\_Database] ([EmpID] asc)

drop index IN\_EmpID on [Teaching\_SQL].[dbo].[HR\_Database]

delete from [Teaching\_SQL].[dbo].[HR\_Database] where [EmpID] between 1403065721 and 1403065800

**Default constrain in SQL**

insert into [Person\_1] ( [Email\_ID],[Gender\_ID]) values ( 'Arull.co@gmail.com', 1)

alter table [Person\_1] add constraint DF\_NAME

default 'ADD\_Name' for [NAME]