# SQL Assignment

The task is to create a DB structure that can manage an Eligibility System module as described below.

## Requirements:

The system needs to be able to store multiple Employers (or companies), support new Employers that are added to the system and some that go out of business.

In addition, store Employees. Each Employer has Employees (or workers); these Employees are hired and fired, some die, and Employees can move from one Employer to another Employer in the system.

Also store Dependents. Each Employee can have Dependents; Dependents can also die, move from Employee to Employee, etc. For example, a spouse can divorce one Employee and marry another in the same Employer or in a different Employer.

## Task:

Design and create all the table(s) needed to store and support all the requirements and relationships above from the day to day operations.

Create a Stored Procedure that will count the total number of valid Employees and Dependents for each valid Employer for a given date received as parameter

create table Department

(

deptid int identity(1,1) constraint pk\_dept primary key,

deptname varchar(50),

isactive bit default(1)

)

go

create table Employers

(

emprid int identity(1,1) constraint pk\_empr primary key,

emprname varchar(50),

inbusinessdate date,

isactive bit default(1)

)

go

create table Employee\_Status\_type

(

id int identity(1,1) constraint pk\_statustype primary key,

Typename varchar(100)

)

go

create table Employee

(

empid int identity(1,1) constraint pk\_employee primary key,

deptid int foreign key references Department(deptid),

emprid int foreign key references Employers(emprid),

fname varchar(100),

mname varchar(100),

lname varchar(100),

startdate date,

enddate date,

isactive bit default(1),

statustype int foreign key references Employee\_Status\_type(id)

)

go

create table Employee\_hist

(

hist\_id int identity(1,1) primary key,

empid int identity(1,1),

deptid int foreign key references Department(deptid),

emprid int foreign key references Employers(emprid),

fname varchar(100),

mname varchar(100),

lname varchar(100),

startdate date,

enddate date,

isactive bit default(1),

statustype int foreign key references Employee\_Status\_type(id),

hist\_date datetime

)

go

create table Employee\_dependent

(

dependent\_id int identity(1,1) constraint pk\_Employee\_dependent primary key,

empid int foreign key references Employers(empid),

dependent\_start\_date date,

dependent\_end\_date date,

isactive bit default(1),

remark varchar(200)

)

go

create procedure getvalidemployees

@date date

as

begin

set nocount on

select d.deptname, count(e.empid) as number\_of\_valid\_employee

from Employee\_hist e

inner join Department d on e.deptid = d.deptid

inner join Employers er on er.emprid = e.emprid and er.isactive = 1

where e.isactive = 1

and e.enddate < @date

group by d.deptname

end

go