1. First Question
   1. select A.EmpNo,A.Name, A.LastName from [dbo].[EmployeeTable] A where A.Address='Hama'and DATEDIFF (YYYY,A.HireDate, getdate())>=10
   2. select A.Name, A.LastName from [dbo].[EmployeeTable] A where ((A.Degree=2

and A.Certificate='Eng' ) Or (A.Degree=3 and A.HireDate>='05/25/2003'))

* 1. select A.Name, A.LastName from [dbo].[EmployeeTable] A where A.EmpNo not in

( select EmpNo from TimeTable )

* 1. update [dbo].[EmployeeTable] set Degree= Degree+1 where DATEDIFF (YYYY,HireDate, getdate())>4
  2. select A.EmpNo, A.Certificate from [dbo].[EmployeeTable] A inner join

[dbo].[WagesTable] B on A.Degree=B.Degree where A.Degree>21

* 1. select A.EmpNo,A.Name, A.LastName,A.Address,A.Certificate from [dbo].[EmployeeTable] A where A.Address like '12%'

1. Second Question
   1. select A.EmpNo,A.Name, A.LastName , B.StartWork , DATEDIFF (HH,B.StartWork,B.EndWork) as DailyWorkHour from [dbo].[EmployeeTable] A inner join TimeTable B on A.EmpNo=B.EmpNo
   2. select X.EmpNo, X.WorkMonth,sum(X.DailyWorkHour) as DailyWorkHour from (

select A.EmpNo,MONTH( B.StartWork ) as WorkMonth ,

DATEDIFF (HH,B.StartWork,B.EndWork) as DailyWorkHour from [dbo].[EmployeeTable] A

inner join TimeTable B on A.EmpNo=B.EmpNo) X group by X.EmpNo, X.WorkMonth

* 1. select X.EmpNo, X.WorkMonth,sum(X.DailyWorkHour)\*150 as Salary from (select A.EmpNo,MONTH( B.StartWork ) as WorkMonth ,

DATEDIFF (HH,B.StartWork,B.EndWork) as DailyWorkHour from [dbo].[EmployeeTable] A inner join TimeTable B on A.EmpNo=B.EmpNo) X group by X.EmpNo, X.WorkMonth

* 1. select X.EmpNo, X.WorkMonth,sum(X.DailyWorkHour)\*X.HourWages as Salary from (

select A.EmpNo,MONTH( B.StartWork ) as WorkMonth ,

DATEDIFF (HH,B.StartWork,B.EndWork) as DailyWorkHour, C.HourWages from [dbo].[EmployeeTable] A

inner join TimeTable B on A.EmpNo=B.EmpNo inner join WagesTable C on A.Degree=C.Degree) X group by X.EmpNo, X.WorkMonth,X.HourWages

1. Third Question
   1. CREATE TRIGGER TR\_TimeTable ON [dbo].[TimeTable]

AFTER INSERT AS

if exists ( select EmpNo from EmployeeTable A where A.EmpNo in ( SELECT I.EmpNo

FROM Inserted I)

and A.HireDate> ( SELECT I.[StartWork]

FROM Inserted I))

begin

update [TimeTable] set EmpNo=null

from [TimeTable] INNER JOIN inserted i on i.EmpNo = [TimeTable].EmpNo

end

* 1. Fourth Question

create View TotalSalary as

select X.EmpNo, X.WorkMonth,(sum(X.NormalDailyWorkHour)\*150) +

(sum(X.OvertimeDailyWorkHour)\*300) as Salary from (

select A.EmpNo,MONTH( B.StartWork ) as WorkMonth ,

case when DATEDIFF (HH,B.StartWork,B.EndWork) <=8

then DATEDIFF (HH,B.StartWork,B.EndWork) else 8 end

as NormalDailyWorkHour,

case when DATEDIFF (HH,B.StartWork,B.EndWork) >8

then DATEDIFF (HH,B.StartWork,B.EndWork) -8 else 0 end

as OvertimeDailyWorkHour

from [dbo].[EmployeeTable] A

inner join TimeTable B on A.EmpNo=B.EmpNo

) X group by X.EmpNo, X.WorkMonth

6 .Fifth Question

CREATE SEQUENCE Sequeence

START WITH 15

INCREMENT BY 15

minvalue 8

maxvalue 200

cycle