Mohammad Irfan Uddin

Model:

```
using System.ComponentModel.DataAnnotations.Schema;
using System.ComponentModel.DataAnnotations;
using System;
using System.Globalization;
using Microsoft.EntityFrameworkCore;
namespace GTHRTraining.Models
{
  public class Company
     [Key]
     public Guid ComId { get; set; }
     public string ComName { get; set; }
     public double? Basic { get; set; }
     public double? Hrent { get; set; }
     public double? Medical { get; set; }
     public bool IsInactive { get; set; }
  }
  public class Department
     [Key]
     public Guid DeptId { get; set; }
     [Key]
     public Guid ComId { get; set; }
     [ForeignKey("Comld")]
     public Company Com { get; set; }
     public string DeptName { get; set; }
     [NotMapped]
     public string? ComName { get; set; }
  }
  public class Designation
     [Key]
     public Guid Desigld { get; set; }
     public Guid ComId { get; set; }
     [ForeignKey("ComId")]
     public Company Com { get; set; }
     public string DesigName { get; set; }
     [InverseProperty(nameof(Employee.Designation))]
     public virtual ICollection < Employee > Employees { get; set; }
     [NotMapped]
     public string? ComName { get; set; }
  }
  public class Shift
     [Key]
```

```
public Guid ShiftId { get; set; }
  public Guid ComId { get; set; }
  [ForeignKey("ComId")]
  public Company Com { get; set; }
  public string ShiftName { get; set; }
  public TimeSpan? ShiftIn { get; set; }
  public TimeSpan? ShiftOut { get; set; }
  public TimeSpan? ShiftLate { get; set; }
  [InverseProperty(nameof(Employee.Shift))]
  public virtual ICollection < Employee > Employees { get; set; }
  [NotMapped]
  public string? ComName { get; set; }
}
public class Employee
  public Guid Empld { get; set; }
  public string EmpCode { get; set; }
  public string EmpName { get; set; }
  public Guid ShiftId { get; set; }
  [ForeignKey(nameof(ShiftId))]
  public virtual Shift Shift { get; set; }
  public Guid ComId { get; set; }
  public Guid DeptId { get; set; }
  [ForeignKey(nameof(DeptId) + "," + nameof(ComId))]
  public virtual Department Department { get; set; }
  public Guid Desigld { get; set; }
  [ForeignKey(nameof(Desigld))]
  public virtual Designation Designation { get; set; }
  public string Gender { get; set; }
  public double? Gross { get; set; }
  public double? Basic { get; set; }
  public double? Hrent { get; set; }
  public double? Medical { get; set; }
  [DisplayFormat(DataFormatString = "{0:0.00}")]
  public double? Others { get; set; }
  [DisplayFormat(DataFormatString = "{0:d}")]
  public DateTime? dtJoin { get; set; }
  [NotMapped]
  public string? ShiftName { get; set; }
  [NotMapped]
  public string? DeptName { get; set; }
  [NotMapped]
  public string? DesigName { get; set; }
}
```

```
public class Attendance
  [Key]
  public Guid ComId { get; set; }
  [ForeignKey("Comld")]
  public Company Com { get; set; }
  [Key]
  public Guid Empld { get; set; }
  [ForeignKey("Empld")]
  public Employee Emp { get; set; }
  [Key]
  [DisplayFormat(DataFormatString = "{0:d}")]
  public DateTime dtDate { get; set; }
  public string? AttStatus { get; set; }
  public TimeSpan? InTime { get; set; }
  public TimeSpan? OutTime { get; set; }
  [NotMapped]
  public string? ComName { get; set; }
}
public class AttSummary
  [Key]
  public Guid ComId { get; set; }
  [ForeignKey("Comld")]
  public Company Com { get; set; }
  [Key]
  public Guid Empld { get; set; }
  [ForeignKey("Empld")]
  public Employee Emp { get; set; }
  [Key, StringLength(4)]
  public string dtYear { get; set; }
  [Key, StringLength(4)]
  public string dtMonth { get; set; }
  public int? Present { get; set; }
  public int? Late { get; set; }
  public int? Absent { get; set; }
  public int? WDay { get; set; }
  [NotMapped]
  public string? ComName { get; set; }
}
public class Salary
  [Key]
  public Guid ComId { get; set; }
  [ForeignKey("Comld")]
  public Company Com { get; set; }
  [Key]
  public Guid Empld { get; set; }
```

```
[ForeignKey("Empld")]
   public Employee Emp { get; set; }
   [Key, StringLength(4)]
   public string dtYear { get; set; }
   [Key, StringLength(4)]
   public string dtMonth { get; set; }
   public double? Gross { get; set; }
   public double? Basic { get; set; }
   public double? Hrent { get; set; }
  public double? Medical { get; set; }
   [DisplayFormat(DataFormatString = "{0:0.00}")]
   public double? AbsentAmount { get; set; }
   [DisplayFormat(DataFormatString = "{0:0.00}")]
   public double? PayableAmount { get; set; }
   [NotMapped]
   public string? ComName { get; set; }
   [NotMapped]
  public string? EmpName { get; set; }
}
```

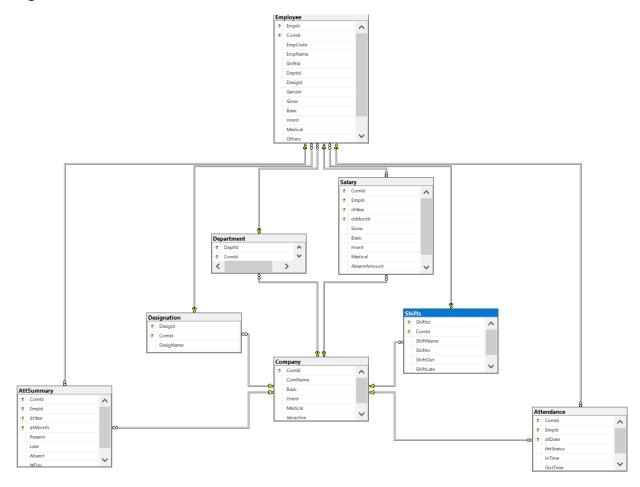
Context:

}

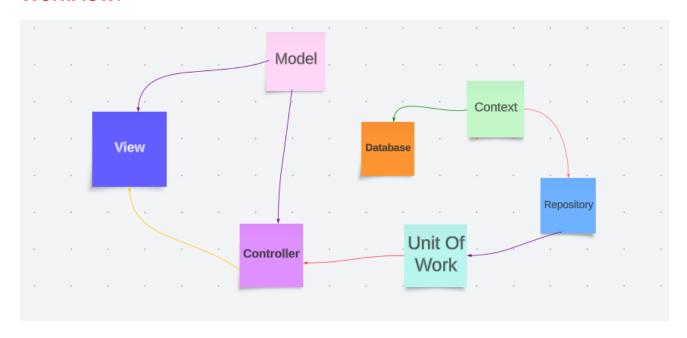
```
using Microsoft.EntityFrameworkCore;
namespace GTHRTraining.Models
  public class HRdbContext : DbContext
     public HRdbContext(DbContextOptions<HRdbContext> options)
       : base(options)
    {
    }
    protected override void OnModelCreating(ModelBuilder modelBuilder)
       modelBuilder.Entity < AttSummary > ()
         .HasKey(a => new { a.ComId, a.EmpId, a.dtYear, a.dtMonth });
       modelBuilder.Entity<Attendance>()
         .HasKey(a => new { a.ComId, a.EmpId, a.dtDate});
       modelBuilder.Entity < Salary > ()
        .HasKey(a => new { a.ComId, a.EmpId, a.dtYear, a.dtMonth });
       modelBuilder.Entity<Employee>()
     .HasOne(e => e.Department)
     .WithMany()
    .HasForeignKey(e => new { e.DeptId, e.ComId });
       modelBuilder.Entity<Employee>()
     .HasOne(e => e.Designation)
     .WithMany(d => d.Employees)
    .HasForeignKey(e => new { e.DesigId, e.ComId })
     .OnDelete(DeleteBehavior.NoAction);
```

```
modelBuilder.Entity < Employee > ()
   .HasOne(e => e.Shift)
   .WithMany(s => s.Employees)
  .HasForeignKey(e => new { e.ShiftId, e.ComId })
   .OnDelete(DeleteBehavior.NoAction);
     modelBuilder.Entity<Attendance>()
  .HasOne(a => a.Emp)
  .WithMany()
  .HasForeignKey(a => new { a.EmpId, a.ComId })
   .OnDelete(DeleteBehavior.NoAction);
     modelBuilder.Entity < AttSummary > ()
   .HasOne(a => a.Emp)
  .WithMany()
  .HasForeignKey(a => new { a.EmpId, a.ComId })
  .OnDelete(DeleteBehavior.NoAction);
     modelBuilder.Entity < Salary > ()
   .HasOne(s => s.Emp)
   .WithMany()
  .HasForeignKey(s => new { s.Empld, s.Comld })
  .OnDelete(DeleteBehavior.NoAction);
     modelBuilder.Entity < Department > ()
  .HasKey(d => new { d.DeptId, d.ComId });
     modelBuilder.Entity < Designation > ()
   .HasKey(d => new { d.DesigId, d.ComId });
     modelBuilder.Entity<Shift>()
  .HasKey(d => new { d.ShiftId, d.ComId });
     modelBuilder.Entity < Employee > ()
   .HasKey(d => new { d.Empld, d.Comld });
     // Other configurations...
     base.OnModelCreating(modelBuilder);
  }
   public DbSet < Company > Company { get; set; }
   public DbSet<Department> Department { get; set; }
  public DbSet<Designation> Designation { get; set; }
   public DbSet<Shift> Shifts { get; set; }
   public DbSet<Employee> Employee { get; set; }
  public DbSet<Attendance> Attendance { get; set; }
  public DbSet<AttSummary> AttSummary { get; set; }
  public DbSet<Salary> Salary { get; set; }
}
```

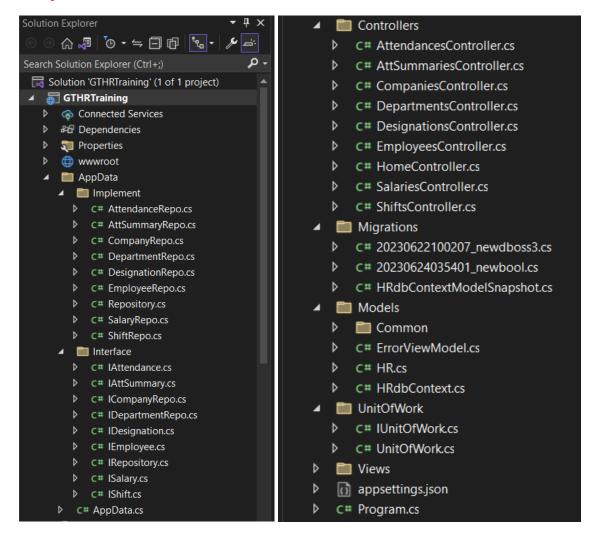
Table Diagram:



WorkFlow:



Project Files:



Repository:

Main Repository:

```
using GTHRTraining.AppData.Interface;
using GTHRTraining.Models;
using Microsoft.EntityFrameworkCore;
using System.Linq.Expressions;

namespace GTHRTraining.AppData.Implement
{
    public class Repository<T> : IRepository<T> where T : class
    {
        protected readonly HRdbContext _context;
        public Repository(HRdbContext context)
        {
              _context = context;
        }
        public async Task<int> Count(Expression<Func<T, bool>> predicate)
        {
              return await _context.Set<T>().CountAsync(predicate);
        }
}
```

```
public async Task Create(T model)
  await _context.Set<T>().AddAsync(model);
  await SaveChange();
}
public async Task Delete(Guid Id)
  var result = await GetByld(ld);
  if (result is not null)
     _context.Set<T>().Remove(result);
     await SaveChange();
}
public async Task Delete(Guid Id, Guid ComId)
  var result = await GetByld(Id,ComId);
  if (result is not null)
     _context.Set<T>().Remove(result);
     await SaveChange();
  }
}
public async Task Delete(Guid Comld, Guid Empld, DateTime dtDate)
  var result = await GetByld(ComId, EmpId, dtDate);
  if (result is not null)
     _context.Set<T>().Remove(result);
     await SaveChange();
  }
public async Task Delete(Guid Comld, Guid Empld, string dtMonth, string dtYear)
  var result = await GetByld(ComId, EmpId, dtMonth, dtYear);
  if (result is not null)
     _context.Set<T>().Remove(result);
     await SaveChange();
}
private Task GetById(object id)
  throw new NotImplementedException();
public async Task<bool> Exist(Expression<Func<T, bool>> predicate)
   return await _context.Set<T>().AnyAsync();
```

```
}
public async Task<IEnumerable<T>> GetAllAsync()
  return await _context.Set<T>().ToListAsync();
}
public async Task<T> GetByld(Guid id)
  return await _context.Set<T>().FindAsync(id);
public async Task<T> GetByld(Guid id, Guid Comld)
  return await _context.Set<T>().FindAsync(id,ComId);
public async Task<T> GetByld(Guid Comld, Guid Empld, DateTime dtDate)
  return await _context.Set<T>().FindAsync(ComId, EmpId, dtDate);
public async Task<T> GetByld(Guid Comld, Guid Empld, string dtMonth, string dtYear)
  return await _context.Set<T>().FindAsync(ComId, EmpId, dtMonth, dtYear);
}
public async Task<T> Single(Expression<Func<T, bool>> predicate)
  return await _context.Set<T>().SingleOrDefaultAsync(predicate);
}
public async Task Update(T model, Guid Id)
  if (model == null)
     return;
  T oldData = await _context.Set<T>().FindAsync(Id);
  if (oldData != null)
     \_context. Entry (old Data). Current Values. Set Values (model); \\
     await SaveChange();
  }
public async Task Update(T model, Guid Id, Guid Comld)
  if (model == null)
     return;
  T oldData = await _context.Set<T>().FindAsync(Id, ComId);
  if (oldData != null)
```

```
_context.Entry(oldData).CurrentValues.SetValues(model);
     await SaveChange();
  }
public async Task Update(T model, Guid Comld, Guid Empld, DateTime dtDate)
  if (model == null)
     return;
  T oldData = await _context.Set<T>().FindAsync(ComId, EmpId, dtDate);
  if (oldData != null)
     _context.Entry(oldData).CurrentValues.SetValues(model);
     await SaveChange();
  }
}
public async Task Update(T model, Guid Comld, Guid Empld, string dtMonth, string dtYear)
  if (model == null)
     return;
  T oldData = await _context.Set<T>().FindAsync(ComId, EmpId, dtMonth, dtYear);
  if (oldData != null)
     _context.Entry(oldData).CurrentValues.SetValues(model);
     await SaveChange();
  }
public Task<IEnumerable<T>> Where(Expression<Func<T, bool>> predicate)
  throw new NotImplementedException();
public async Task SaveChange()
  await _context.SaveChangesAsync();
```

}

```
using GTHRTraining.AppData.Interface;
using GTHRTraining.Models;
namespace GTHRTraining.AppData.Implement
  public class AttendanceRepo: Repository < Attendance >, IAttendance
    public AttendanceRepo(HRdbContext context) : base(context)
  }
Company repository
using GTHRTraining.AppData.Interface;
using GTHRTraining.Models;
namespace GTHRTraining.AppData.Implement
  public class CompanyRepo : Repository < Company>, ICompanyRepo
  public CompanyRepo(HRdbContext context) : base(context)
Department repository
using GTHRTraining.AppData.Interface;
using GTHRTraining.Models;
using System.Linq.Expressions;
namespace GTHRTraining.AppData.Implement
{
  public class DepartmentRepo: Repository < Department>, IDepartmentRepo
    public DepartmentRepo(HRdbContext context) : base(context)
  }
Designation Repository
using GTHRTraining.AppData.Interface;
using GTHRTraining.Models;
namespace GTHRTraining.AppData.Implement
  public class DesignationRepo: Repository < Designation >, IDesignation
    public DesignationRepo(HRdbContext context) : base(context)
  }
```

Employee repository

```
using GTHRTraining.AppData.Interface;
using GTHRTraining.Models;
namespace GTHRTraining.AppData.Implement
  public class EmployeeRepo: Repository < Employee >, IEmployee
    public EmployeeRepo(HRdbContext context) : base(context)
  }
Salary Repository
using GTHRTraining.AppData.Interface;
using GTHRTraining.Models;
namespace GTHRTraining.AppData.Implement
  public class SalaryRepo : Repository < Salary >, ISalary
    public SalaryRepo(HRdbContext context) : base(context)
  }
Shift Repository
using GTHRTraining.AppData.Interface;
using GTHRTraining.Models;
namespace GTHRTraining.AppData.Implement
  public class ShiftRepo: Repository < Shift >, IShift
    public ShiftRepo(HRdbContext context) : base(context)
}
Repository interface
Main repository interface
using System.Linq.Expressions;
namespace GTHRTraining.AppData.Interface
  public interface IRepository <T> where T: class
```

Task<IEnumerable<T>> GetAllAsync();

Task<IEnumerable<T>> Where(Expression<Func<T, bool>> predicate);

Task<T> Single(Expression<Func<T, bool>> predicate);

```
Task<T> GetByld(Guid id);
     Task<T> GetByld(Guid id, Guid Comld);
     Task<T> GetByld(Guid ComId, Guid EmpId, DateTime dtDate);
     Task<T> GetById(T model, Guid ComId, Guid EmpId, string dtMonth, string dtYear);
     Task Create(T model);
     Task Update(T model, Guid Id);
     Task Update(T model, Guid Id, Guid ComId);
     Task Update(T model, Guid Comld, Guid Empld, DateTime dtDate);
     Task Update(T model, Guid Comld, Guid Empld, string dtMonth, string dtYear);
     Task Delete(Guid Id);
    Task Delete(Guid Id, Guid ComId);
    Task Delete(T model, Guid ComId, Guid EmpId, DateTime dtDate);
     Task Delete(T model, Guid Comld, Guid Empld, string dtMonth, string dtYear);
     Task<int> Count(Expression<Func<T, bool>> predicate);
     Task<bool> Exist(Expression<Func<T, bool>> predicate);
  }
}
```

Common figure for all repository interface

```
using GTHRTraining.Models;
namespace GTHRTraining.AppData.Interface
{
   public interface IAttendance : IRepository < Attendance >
   {
   }
}
```

Unit of Work:

```
using GTHRTraining.AppData.Implement;
using GTHRTraining.AppData.Interface;
using GTHRTraining.Models;
namespace GTHRTraining.UnitOfWork
  public class UnitOfWork: IUnitOfWork
  {
    private readonly HRdbContext _dbContext;
    private readonly Dictionary < Type, object > _repositories;
     public UnitOfWork(HRdbContext dbContext)
    {
       _dbContext = dbContext;
       _repositories = new Dictionary<Type, object>();
     public IRepository<T> GetRepository<T>() where T : class
       if (_repositories.ContainsKey(typeof(T)))
         return (IRepository<T>)_repositories[typeof(T)];
       }
```

```
var repository = new Repository < T > (_dbContext);
       _repositories.Add(typeof(T), repository);
       return repository;
    }
     public async Task SaveAsync()
     {
       await _dbContext.SaveChangesAsync();
     public void Dispose()
       _dbContext.Dispose();
  }
}
Interface of Unit of Work:
using GTHRTraining.AppData.Interface;
namespace GTHRTraining.UnitOfWork
  public interface IUnitOfWork: IDisposable
     IRepository<T> GetRepository<T>() where T : class;
     Task SaveAsync();
  }
}
```

Appsettings.json

```
{
  "Logging": {
    "LogLevel": {
      "Default": "Information",
      "Microsoft.AspNetCore": "Warning"
    }
},
  "ConnectionStrings": {
    "DefaultConnection": "Server=DESKTOP-17QPMKC\\SQLEXPRESS;Database=MVCTask; User Id =TeamMVCTask; Password
=TeamMVCTask; TrustServerCertificate=True"
    },
    "AllowedHosts": "*"
}
```

Program.cs

```
using GTHRTraining.AppData.Implement;
using GTHRTraining.AppData.Interface;
using GTHRTraining.Models;
using Microsoft.EntityFrameworkCore;
```

```
var builder = WebApplication.CreateBuilder(args);
// Add services to the container.
builder.Services.AddControllersWithViews();
builder.Services.AddDbContext<HRdbContext>(
  options => options.UseSqlServer(builder.Configuration.GetConnectionString("DefaultConnection")));
builder.Services.AddScoped<IUnitOfWork, UnitOfWork>();
var app = builder.Build();
if (!app.Environment.IsDevelopment())
  app.UseExceptionHandler("/Home/Error");
  // The default HSTS value is 30 days. You may want to change this for production scenarios, see https://aka.ms/aspnetcore-
  app.UseHsts();
}
app.UseHttpsRedirection();
app.UseStaticFiles();
app.UseRouting();
app.UseAuthorization();
app.MapControllerRoute(
  name: "default",
  pattern: "{controller=Home}/{action=Index}/{id?}");
app.Run();
```

Controller

Home Controller

Here to set Company Id in cookie I add a simple code in Index.Cshtml. Here it is-

```
@{
    ViewData["Title"] = "Home Page";
}

<div class="text-center">
    <h1 class="display-4">Welcome</h1>
    <div class="form-group">
        <label class="control-label"></label>
        <select id="companySelect" class="form-control" asp-items="ViewBag.ComId"></select>

        <button onclick="setCompanyCookie()">Set Company</button>
        </div>
        Learn about <a href="https://docs.microsoft.com/aspnet/core">building Web apps with ASP.NET Core</a>.
</div>
@section Scripts
{
```

```
script>
function setCompanyCookie() {
  var dropdown = document.getElementByld("companySelect");
  var selectedOption = dropdown.options[dropdown.selectedIndex];
  var comId = selectedOption.value;
  var comName = selectedOption.text;

// Set cookie with company ID
  document.cookie = "comId=" + comId + "; expires=Fri, 31 Dec 9999 23:59:59 GMT";

// Set cookie with company name
  document.cookie = "comName=" + encodeURIComponent(comName) + "; expires=Fri, 31 Dec 9999 23:59:59 GMT";

// Optionally, you can display a confirmation message
  alert("Company set successfully!");
  }

</script>
```

} and the View page is like that

GTHRTraining Home Company Department Designation Shift Employee Attendance AttSummary

Welcome

Eastport

Eastport

GTR

Company Controller

```
public class CompaniesController: Controller
    private readonly IUnitOfWork _unitOfWork;
     public CompaniesController(IUnitOfWork unitOfWork)
       _unitOfWork = unitOfWork;
    // GET: Companies
    public async Task<IActionResult> Index()
       var companyRepo = _unitOfWork.GetRepository < Company > ();
       var companies = await companyRepo.GetAllAsync();
       return View(companies);
    }
    public async Task<IActionResult> Details(Guid id)
       var companyRepo = unitOfWork.GetRepository < Company > ();
       var company = await companyRepo.GetById(id);
       if (company is null)
         return NotFound();
       return View(company);
     public IActionResult Create()
       return View();
    }
    [HttpPost]
    [ValidateAntiForgeryToken]
    public async Task < IActionResult > Create([Bind("ComId,ComName,Basic,Hrent,Medical,IsInactive")] Company company)
       if (ModelState.IsValid)
         var companyRepo = _unitOfWork.GetRepository < Company > ();
         await companyRepo.Create(company);
         await _unitOfWork.SaveAsync();
         return RedirectToAction(nameof(Index));
      }
       return View(company);
    public async Task<IActionResult> Edit(Guid id)
       var companyRepo = _unitOfWork.GetRepository<Company>();
       var company = await companyRepo.GetById(id);
       if (company is null)
       {
```

```
return NotFound();
      }
       return View(company);
    [HttpPost]
    [ValidateAntiForgeryToken]
    public async Task < IActionResult > Edit(Guid id, [Bind("ComId,ComName,Basic,Hrent,Medical,Islnactive")] Company
company)
    {
       if (id!= company.ComId)
         return NotFound();
       var companyRepo = _unitOfWork.GetRepository<Company>();
       var olcompany = await companyRepo.GetById(id);
       if (olcompany is null)
       {
         return NotFound();
       if (ModelState.IsValid)
         try
            await companyRepo.Update(company, id);
            await _unitOfWork.SaveAsync();
         catch (DbUpdateConcurrencyException e)
            return BadRequest(e.Message);
         return RedirectToAction(nameof(Index));
       }
       return View(company);
    public async Task<IActionResult> Delete(Guid id)
       var companyRepo = _unitOfWork.GetRepository<Company>();
       var company = await companyRepo.GetById(id);
       if (company is null)
         return NotFound();
       return View(company);
    [HttpPost, ActionName("Delete")]
    [ValidateAntiForgeryToken]
    public async Task<IActionResult> DeleteConfirmed(Guid id)
       var companyRepo = _unitOfWork.GetRepository<Company>();
       var company = await companyRepo.GetById(id);
```

```
if (company is null)
{
    return NotFound();
}
await companyRepo.Delete(id);
await _unitOfWork.SaveAsync();
return RedirectToAction(nameof(Index));
}
```

To Create A company click Company from the dashboard and Click Create New.

GTHRTraining Home Company Department Designation Shift Employee Attendance AttSummary

Index

Create New

ComName	Basic	Hrent	Medical	IsInactive	
Eastport	0.5	0.3	0.15		Edit Details Delete
GTR	0.5	0.3	0.19		Edit Details Delete

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Department Controller

```
public class DepartmentsController : Controller
{
    private readonly IUnitOfWork _unitOfWork;

    public DepartmentsController(IUnitOfWork unitOfWork)
    {
        _unitOfWork = unitOfWork;
    }

// GET: Departments
    public async Task<IActionResult> Index()
    {
        var departmentRepo = _unitOfWork.GetRepository<Department>();
        var companyRepo = _unitOfWork.GetRepository<Company>();

        var data = await departmentRepo.GetAllAsync();
        var comid = Guid.Parse(Request.Cookies["comId"]);
    }
}
```

```
data = data.Where(x => x.ComId == comid);
  foreach (var flag in data)
     Expression<Func<Company, bool>> predicate = x => x.ComId == flag.ComId;
     flag.ComName = (await companyRepo.Where(predicate)).Select(y => y.ComName).FirstOrDefault();
  }
  return View(data);
public IActionResult Create()
  return View();
[HttpPost]
[ValidateAntiForgeryToken]
public async Task < IActionResult > Create([Bind("DeptId,ComId,DeptName")] Department department)
  department.ComId = Guid.Parse(Request.Cookies["comId"]);
  department.DeptId = Guid.NewGuid();
  var departmentRepo = unitOfWork.GetRepository < Department > ();
  await departmentRepo.Create(department);
  await _unitOfWork.SaveAsync();
  return RedirectToAction(nameof(Index));
}
// GET: Departments/Edit/5
public async Task<IActionResult> Edit(Guid Deptld, Guid Comld)
  var departmentRepo = _unitOfWork.GetRepository < Department > ();
  var companyRepo = _unitOfWork.GetRepository<Company>();
  var depart = await departmentRepo.GetByld(DeptId, ComId);
  if (depart is null)
     return NotFound();
  if (depart != null)
     Expression < Func < Company, bool >> predicate = x => x. ComId == depart. ComId;
     depart.ComName = (await companyRepo.Where(predicate)).Select(y => y.ComName).FirstOrDefault();
  return View(depart);
}
[HttpPost]
[ValidateAntiForgeryToken]
```

```
public async Task < IActionResult > Edit([Bind("DeptId,ComId,DeptName")] Department department)
  var departmentRepo = _unitOfWork.GetRepository < Department > ();
  var olcompany = await departmentRepo.GetByld(department.DeptId, department.ComId);
  if (olcompany is null)
  {
     return NotFound();
  }
     try
       await departmentRepo.Update(department, department.DeptId, department.ComId);
       await _unitOfWork.SaveAsync();
     }
     catch (DbUpdateConcurrencyException e)
       return BadRequest(e.Message);
    }
     return RedirectToAction(nameof(Index));
}
// GET: Departments/Delete/5
public async Task<IActionResult> Delete(Guid DeptId, Guid ComId)
  var departmentRepo = _unitOfWork.GetRepository < Department > ();
  var depart = await departmentRepo.GetByld(DeptId, ComId);
  if (depart is null)
     return NotFound();
  }
  return View(depart);
// POST: Departments/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public async Task < IActionResult > DeleteConfirmed ([Bind("DeptId,ComId,DeptName")] Department departments)
  var departmentRepo = unitOfWork.GetRepository < Department > ();
  var company = await departmentRepo.GetByld(departments.DeptId, departments.ComId);
  if (company is null)
  {
     return NotFound();
  }
  await departmentRepo.Delete(departments.DeptId, departments.ComId);
  await _unitOfWork.SaveAsync();
```

```
return RedirectToAction(nameof(Index));
}
```

To Create A Department just Department name Is required. It will be created under the company that I had selected.

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Create

Department

DeptName	2	
Create		
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Designation Controller

```
public class DesignationsController : Controller
{
    private readonly IUnitOfWork _unitOfWork;
    private readonly HRdbContext _context;

    public DesignationsController(IUnitOfWork unitOfWork, HRdbContext context)
    {
        _ unitOfWork = unitOfWork;
        _ context = context;
    }

    public async Task<IActionResult> Index()
    {
        var designationRepo = _unitOfWork.GetRepository<Designation>();
        var data = await designationRepo.GetAllAsync();

        var comid = Guid.Parse(Request.Cookies["comId"]);
        data = data.Where(x => x.ComId == comid);

        foreach (var flag in data)
        {
            Expression<Func<Company, bool>> predicate = x => x.ComId == flag.ComId;
            flag.ComName = (await _unitOfWork.GetRepository<Company>().Where(predicate)).Select(y => y.ComName).FirstOrDefault();
    }
}
```

```
return View(data);
}
public async Task<IActionResult> Create()
  ViewBag.ComId = new SelectList(await _unitOfWork.GetRepository < Company > ().GetAllAsync(), "ComId", "ComName");
  return View();
}
[HttpPost]
[ValidateAntiForgeryToken]
public async Task < IActionResult > Create([Bind("Desigld,ComId,DesigName")] Designation designation)
  designation.ComId = Guid.Parse(Request.Cookies["comId"]);
  designation.DesigId = Guid.NewGuid();
  var designationRepo = _unitOfWork.GetRepository < Designation > ();
  await designationRepo.Create(designation);
  await _unitOfWork.SaveAsync();
  return RedirectToAction(nameof(Index));
}
public async Task<IActionResult> Edit(Guid Desigld, Guid Comld)
  if (ComId == null || _context.Designation == null)
     return NotFound();
  var designationRepo = unitOfWork.GetRepository < Designation > ();
  var designation = await designationRepo.GetByld(Desigld, Comld);
  if (designation == null)
  {
     return NotFound();
  ViewData["ComId"] = new SelectList(_context.Company, "ComId", "ComId", designation.ComId);
  return View(designation);
}
[HttpPost]
[ValidateAntiForgeryToken]
public async Task<lActionResult> Edit(Guid Desigld, [Bind("Desigld,Comld,DesigName")] Designation designation)
  var designationRepo = _unitOfWork.GetRepository<Designation>();
  try
  {
     await designationRepo.Update(designation, designation.Desigld, designation.ComId);
     await _unitOfWork.SaveAsync();
  }
  catch (DbUpdateConcurrencyException e)
     return BadRequest(e.Message);
```

```
}
       return RedirectToAction(nameof(Index));
    }
    public async Task<IActionResult> Delete(Guid Desigld, Guid Comld)
       if (Desigld == null || _context.Designation == null)
         return NotFound();
       }
       var designationRepo = unitOfWork.GetRepository < Designation > ();
       var designation = await designationRepo.GetByld(Desigld, Comld);
       if (designation == null)
       {
         return NotFound();
       return View(designation);
    }
    [HttpPost, ActionName("Delete")]
    [ValidateAntiForgeryToken]
    public async Task<IActionResult> DeleteConfirmed(Guid Desigld, [Bind("Desigld,Comld,DesigName")] Designation
designations)
    {
       var designationRepo = _unitOfWork.GetRepository < Designation > ();
       var designation = await designationRepo.GetByld(designations.Desigld, designations.Comld);
       if (designation is null)
       {
         return NotFound();
       }
       await designationRepo.Delete(designations.Desigld, designations.ComId);
       await _unitOfWork.SaveAsync();
       return RedirectToAction(nameof(Index));
    }
    private bool DesignationExists(Guid id)
       return (_context.Designation?.Any(e => e.DesigId == id)).GetValueOrDefault();
  }
```

Here the mechanism is like Department where the designation will be created under the selected company.

Shift Controller

```
public class ShiftsController : Controller
{
```

```
private readonly IUnitOfWork _unitOfWork;
private readonly HRdbContext _context;
public ShiftsController(IUnitOfWork unitOfWork, HRdbContext context)
  unitOfWork = unitOfWork;
  _context = context;
// GET: Shifts
public async Task<IActionResult> Index()
  var shiftRepo = _unitOfWork.GetRepository<Shift>();
  var data = await shiftRepo.GetAllAsync();
  var comid = Guid.Parse(Request.Cookies["comld"]);
  data = data.Where(x => x.ComId == comid);
  foreach (var flag in data)
  {
     Expression<Func<Company, bool>> predicate = x => x.ComId == flag.ComId;
     var companyRepo = _unitOfWork.GetRepository < Company > ();
     flag.ComName = (await companyRepo.Where(predicate)).Select(y => y.ComName).FirstOrDefault();
  }
   return View(data);
public IActionResult Create()
  ViewData["ComId"] = new SelectList(_context.Company, "ComId", "ComName");
  return View();
}
// POST: Shifts/Create
// To protect from overposting attacks, enable the specific properties you want to bind to.
// For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.
[HttpPost]
[ValidateAntiForgeryToken]
public async Task < IActionResult > Create([Bind("ShiftId,ComId,ShiftName,ShiftIn,ShiftOut,ShiftLate")] Shift shift)
  shift.ComId = Guid.Parse(Request.Cookies["comId"]);
  shift.ShiftId = Guid.NewGuid();
  var shiftRepo = _unitOfWork.GetRepository<Shift>();
  await shiftRepo.Create(shift);
  await _unitOfWork.SaveAsync();
  return RedirectToAction(nameof(Index));
}
// GET: Shifts/Edit/5
public async Task<IActionResult> Edit(Guid ShiftId, Guid ComId)
  if (ComId == null || _context.Shifts == null)
     return NotFound();
```

```
var shiftRepo = _unitOfWork.GetRepository < Shift > ();
  var shift = await shiftRepo.GetById(ShiftId, ComId);
  if (shift == null)
     return NotFound();
  ViewData["ComId"] = new SelectList(_context.Company, "ComId", "ComName", shift.ComId);
  return View(shift);
}
[HttpPost]
[ValidateAntiForgeryToken]
public async Task<IActionResult> Edit(Guid ShiftId, [Bind("ShiftId,ComId,ShiftName,ShiftIn,ShiftOut,ShiftLate")] Shift shift)
  var shiftRepo = _unitOfWork.GetRepository<Shift>();
  try
     await shiftRepo.Update(shift, shift.ShiftId, shift.ComId);
     await _unitOfWork.SaveAsync();
  catch (DbUpdateConcurrencyException e)
     return BadRequest(e.Message);
  return RedirectToAction(nameof(Index));
}
// GET: Shifts/Delete/5
public async Task < IActionResult > Delete (Guid ShiftId, Guid ComId)
  if (ComId == null || _context.Shifts == null)
     return NotFound();
  var shiftRepo = _unitOfWork.GetRepository<Shift>();
  var shift = await shiftRepo.GetById(ShiftId, ComId);
  if (shift == null)
     return NotFound();
  return View(shift);
// POST: Shifts/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public async Task<IActionResult> DeleteConfirmed(Shift shift)
  var shiftRepo = _unitOfWork.GetRepository<Shift>();
  var shiftEntity = await shiftRepo.GetById(shift.ShiftId, shift.ComId);
  if (shiftEntity is null)
  {
     return NotFound();
```

```
await shiftRepo.Delete(shift.ShiftId, shift.ComId);
    await _unitOfWork.SaveAsync();
    return RedirectToAction(nameof(Index));
  }
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      Create
      Shift
      ShiftName
      ShiftIn
      ShiftOut
      ShiftLate
        Create
      Back to List
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```

Here only ShiftName, ShiftIn, ShiftOut, ShiftLate is required and obviously created under the selected company.

Employee Controller

```
public class EmployeesController : Controller
{
    private readonly IUnitOfWork _unitOfWork;
    private readonly IConfiguration _configuration;
```

```
public EmployeesController(IUnitOfWork unitOfWork, IConfiguration configuration)
       _unitOfWork = unitOfWork;
       _configuration = configuration;
     public async Task<IActionResult> Index()
       var employeeRepo = _unitOfWork.GetRepository < Employee > ();
       var shiftRepo = _unitOfWork.GetRepository<Shift>();
       var desigRepo = _unitOfWork.GetRepository < Designation > ();
       var deptRepo = _unitOfWork.GetRepository < Department > ();
       var data = await employeeRepo.GetAllAsync();
       var comid = Guid.Parse(Request.Cookies["comld"]);
       data = data.Where(x => x.ComId == comid);
       var departments = await deptRepo.Where(x => x.ComId == comid);
       ViewData["DeptId"] = new SelectList(departments, "DeptId", "DeptName");
       var designations = await desigRepo.Where(x => x.ComId == comid);
       ViewData["DesigId"] = new SelectList(designations, "DesigId", "DesigName");
       foreach (var flag in data)
         flag.ShiftName = (await shiftRepo.Where(x => x.ComId == flag.ComId && x.ShiftId == flag.ShiftId)).Select(y =>
y.ShiftName).FirstOrDefault();
       foreach (var flag in data)
         flag.DesigName = (await desigRepo.Where(x => x.ComId == flag.ComId && x.DesigId == flag.DesigId)).Select(y =>
y.DesigName).FirstOrDefault();
       foreach (var flag in data)
         flag.DeptName = (await deptRepo.Where(x => x.ComId == flag.ComId && x.DeptId == flag.DeptId)).Select(y =>
y.DeptName).FirstOrDefault();
       return View(data);
    }
     public IActionResult FilterEmployees(Guid desigld, Guid deptld)
       string connectionString = _configuration.GetConnectionString("DefaultConnection");
       using (var connection = new SqlConnection(connectionString))
         connection.Open();
         var command = new SqlCommand("Employee_List", connection);
         command.CommandType = CommandType.StoredProcedure;
         // Add parameters
         command.Parameters.AddWithValue("@ComId", Guid.Parse(Request.Cookies["comId"]));
         command.Parameters.AddWithValue("@Desig", (desigId == Guid.Empty) ? (object)DBNull.Value : desigId);
         command.Parameters.AddWithValue("@Dept", (deptId == Guid.Empty) ? (object)DBNull.Value : deptId);
```

```
var employees = new List<Employee>();
     using (var reader = command.ExecuteReader())
       while (reader.Read())
       {
         var employee = new Employee
            Empld = reader.GetGuid(reader.GetOrdinal("Empld")),
            EmpCode = reader.GetString(reader.GetOrdinal("EmpCode")),
            EmpName = reader.GetString(reader.GetOrdinal("EmpName")),
            ShiftId = reader.GetGuid(reader.GetOrdinal("ShiftId")),
            // ... map other properties accordingly
            //Shift = new Shift { ShiftName = reader.GetString(reader.GetOrdinal("ShiftName")) },
           //Department = new Department { DeptName = reader.GetString(reader.GetOrdinal("DeptName")) },
            //Designation = new Designation { DesigName = reader.GetString(reader.GetOrdinal("DesigName")) }
         };
         employees.Add(employee);
       }
     }
     ViewBag.FilteredEmployees = employees;
  }
  return View("Index", ViewBag.FilteredEmployees);
public async Task<IActionResult> Create()
  var comid = Guid.Parse(Request.Cookies["comld"]);
  var shiftRepo = _unitOfWork.GetRepository<Shift>();
  var deptRepo = unitOfWork.GetRepository < Department > ();
  var desigRepo = _unitOfWork.GetRepository < Designation > ();
  ViewData["ShiftId"] = new SelectList(await shiftRepo.Where(x => x.ComId == comid), "ShiftId", "ShiftName");
  ViewData["DeptId"] = new SelectList(await deptRepo.Where(x => x.ComId == comid), "DeptId", "DeptName");
  ViewData["DesigId"] = new SelectList(await desigRepo.Where(x => x.ComId == comid), "DesigId", "DesigName");
  return View();
}
[HttpPost]
[ValidateAntiForgeryToken]
public async Task<IActionResult> Create(Employee employee)
{
     employee.ComId = Guid.Parse(Request.Cookies["comId"]);
     var comRepo = _unitOfWork.GetRepository<Company>();
  Expression < Func < Company, bool >> predicate = x => x.ComId == employee.ComId;
  var data = (await comRepo.Where(predicate)).FirstOrDefault();
  var employeeRepo = _unitOfWork.GetRepository < Employee > ();
  employee.Basic = data.Basic * employee.Gross;
```

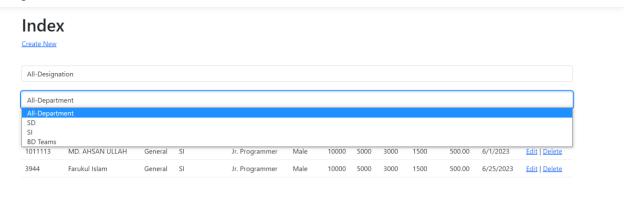
```
employee.Hrent = data.Hrent * employee.Gross;
       employee.Medical = data.Medical * employee.Gross;
       employee.Others = (1 - data.Basic - data.Hrent - data.Medical) * employee.Gross;
       employee.Empld = Guid.NewGuid();
       employeeRepo.Create(employee);
         //await_unitOfWork.SaveAsync();
         return RedirectToAction(nameof(Index));
    }
    public async Task<IActionResult> Edit(Guid id)
       if (id == null)
         return NotFound();
       var companyRepo = unitOfWork.GetRepository<Company>();
       var employeeRepo = _unitOfWork.GetRepository<Employee>();
       var shiftRepo = _unitOfWork.GetRepository<Shift>();
       var deptRepo = _unitOfWork.GetRepository < Department > ();
       var desigRepo = _unitOfWork.GetRepository < Designation > ();
       var comid = Guid.Parse(Request.Cookies["comld"]);
       var employee = await employeeRepo.GetByld(id, comid);
       if (employee == null)
       {
         return NotFound();
      }
       ViewData["ComId"] = new SelectList(await companyRepo.Where(x => x.ComId == comid), "ComId", "ComName",
employee.ComId);
       ViewData["ShiftId"] = new SelectList(await shiftRepo.Where(x => x.ComId == comid), "ShiftId", "ShiftName",
employee.ShiftId);
       ViewData["DeptId"] = new SelectList(await deptRepo.Where(x => x.ComId == comid), "DeptId", "DeptName",
employee.DeptId);
       ViewData["DesigId"] = new SelectList(await desigRepo.Where(x => x.ComId == comid), "DesigId", "DesigName",
employee.Desigld);
       return View(employee);
    }
    [HttpPost]
    [ValidateAntiForgeryToken]
    public async Task<IActionResult> Edit(Guid id, Employee employee)
       if (id != employee.Empld)
         return NotFound();
       if (ModelState.IsValid)
         try
```

```
var employeeRepo = _unitOfWork.GetRepository<Employee>();
       employeeRepo.Update(employee, employee.Empld, employee.Comld);
       await _unitOfWork.SaveAsync();
    }
     catch (DbUpdateConcurrencyException)
     {
         throw;
    }
     return RedirectToAction(nameof(Index));
  }
  var shiftRepo = unitOfWork.GetRepository<Shift>();
  var deptRepo = _unitOfWork.GetRepository < Department > ();
  var desigRepo = _unitOfWork.GetRepository<Designation>();
  ViewData["ShiftId"] = new SelectList(await shiftRepo.GetAllAsync(), "ShiftId", "ShiftName", employee.ShiftId);
  ViewData["DeptId"] = new SelectList(await deptRepo.GetAllAsync(), "DeptId", "DeptName", employee.DeptId);
  ViewData["DesigId"] = new SelectList(await desigRepo.GetAllAsync(), "DesigId", "DesigName", employee.DesigId);
  return View(employee);
}
public async Task < IActionResult > Delete (Guid Empld, Guid Comid)
  if (Empld == null)
  {
     return NotFound();
  var comid = Guid.Parse(Request.Cookies["comld"]);
  var employeeRepo = _unitOfWork.GetRepository<Employee>();
  var employee = await employeeRepo.GetByld(Empld, comid);
  if (employee == null)
  {
     return NotFound();
  return View(employee);
}
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public async Task<IActionResult> DeleteConfirmed(Guid Empld, Guid Comid)
  var employeeRepo = unitOfWork.GetRepository < Employee > ();
  var comid = Guid.Parse(Request.Cookies["comld"]);
  var employee = await employeeRepo.GetByld(Empld, comid);
  employeeRepo.Delete(employee.Empld,employee.ComId);
  //await _unitOfWork.SaveAsync();
  return RedirectToAction(nameof(Index));
}
```

}

Here We can the Employee list using Department and Designation which will call a Controller lActionResult method And it's use a store procedure called Employee_list to filter the Employee list.

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Attendance Controller

```
public class AttendancesController: Controller
  {
     private readonly IUnitOfWork _unitOfWork;
    private readonly IConfiguration _configuration;
    private readonly HRdbContext _context;
    public AttendancesController(IUnitOfWork unitOfWork, IConfiguration configuration, HRdbContext context)
       _unitOfWork = unitOfWork;
       _configuration = configuration;
       _context = context;
    // GET: Attendances
    public async Task<IActionResult> Index()
       var comid = Guid.Parse(Request.Cookies["comId"]);
       var attendanceRepo = _unitOfWork.GetRepository<Attendance>();
       var companyRepo = _unitOfWork.GetRepository<Company>();
```

```
var employeeRepo = _unitOfWork.GetRepository<Employee>();
  var data = await attendanceRepo.GetAllAsync();
  data = data.Where(x => x.ComId == comid);
  foreach (var flag in data)
  {
    Expression<Func<Company, bool>> predicate = x => x.ComId == flag.ComId;
    flag.ComName = (await companyRepo.Where(predicate)).Select(y => y.ComName).FirstOrDefault();
    Expression<Func<Employee, bool>> predicates = x => x.ComId == comid && x.EmpId == flag.EmpId;
    flag.EmpName = (await employeeRepo.Where(predicates)).Select(y => y.EmpName).FirstOrDefault();
  }
  return View(data);
public async Task<IActionResult> FilterData(string criteria, DateTime date)
  string connectionString = _configuration.GetConnectionString("DefaultConnection");
  var attendances = new List<Attendance>();
  var comid = Guid.Parse(Request.Cookies["comId"]);
  var companyRepo = _unitOfWork.GetRepository < Company > ();
  var employeeRepo = _unitOfWork.GetRepository<Employee>();
  using (var connection = new SqlConnection(connectionString))
  {
    connection.Open();
    var command = new SqlCommand("AttendanceList", connection);
    command.CommandType = CommandType.StoredProcedure;
    // Add parameters
    command.Parameters.AddWithValue("@ComId", Guid.Parse(Request.Cookies["comId"]));
```

{

```
command.Parameters.AddWithValue("@status", criteria);
         command.Parameters.AddWithValue("@date", date);
         using (var reader = command.ExecuteReader())
           while (reader.Read())
              var attendance = new Attendance
              {
                ComId = reader.GetGuid(reader.GetOrdinal("ComId")),
                EmpId = reader.GetGuid(reader.GetOrdinal("EmpId")),
                dtDate = reader.GetDateTime(reader.GetOrdinal("dtDate")),
                AttStatus = reader.GetString(reader.GetOrdinal("AttStatus")),
                InTime = reader.IsDBNull(reader.GetOrdinal("InTime")) ? TimeSpan.MinValue :
reader.GetTimeSpan(reader.GetOrdinal("InTime")),
                OutTime = reader.lsDBNull(reader.GetOrdinal("OutTime")) ? TimeSpan.MinValue :
reader.GetTimeSpan(reader.GetOrdinal("OutTime")),
                // ... map other properties accordingly
              };
              attendances.Add(attendance);
           }
         }
       foreach (var flag in attendances)
         Expression<Func<Company, bool>> predicate = x => x.ComId == flag.ComId;
         flag.ComName = (await companyRepo.Where(predicate)).Select(y => y.ComName).FirstOrDefault();
         Expression<Func<Employee, bool>> predicates = x => x.ComId == comid && x.EmpId == flag.EmpId;
         flag.EmpName = (await employeeRepo.Where(predicates)).Select(y => y.EmpName).FirstOrDefault();
```

```
return Json(attendances);
public async Task<IActionResult> Create()
{
  var companyRepo = _unitOfWork.GetRepository<Company>();
  var employeeRepo = _unitOfWork.GetRepository<Employee>();
  ViewData["ComId"] = new SelectList(await companyRepo.Where(x => true), "ComId", "ComName");
  var comid = Guid.Parse(Request.Cookies["comId"]);
  ViewData["EmpId"] = new SelectList(await employeeRepo.Where(x => x.ComId == comid), "EmpId", "EmpName");
  return View();
}
[HttpPost]
[ValidateAntiForgeryToken]
public async Task<IActionResult> Create([Bind("Comld,Empld,dtDate,AttStatus,InTime,OutTime")] Attendance attendance)
{
  var shiftRepo = _unitOfWork.GetRepository<Shift>();
  var employeeRepo = _unitOfWork.GetRepository<Employee>();
  var attendanceRepo = _unitOfWork.GetRepository<Attendance>();
  var comid = Guid.Parse(Request.Cookies["comId"]);
  attendance.ComId = comid;
  Expression<Func<Employee, bool>> predicate = x => x.ComId == comid;
  var empShift = (await employeeRepo.Where(predicate)).Select(y => y.ShiftId).FirstOrDefault();
  Expression<Func<Shift, bool>> predicates = x => x.ShiftId == empShift;
  var timeIn = (await shiftRepo.Where(predicates)).Select(y => y.ShiftIn).FirstOrDefault();
  if(attendance.InTime == TimeSpan.Zero)
  {
```

```
attendance.AttStatus = "A";
}
else
  if (timeIn >= attendance.InTime)
  {
    attendance.AttStatus = "P";
  }
  else
    attendance.AttStatus = "L";
  }
await attendanceRepo.Create(attendance);
DateTime date = attendance.dtDate; // Your specific date
DateTime startDate = new DateTime(date.Year, date.Month, 1);
DateTime endDate = startDate.AddMonths(1).AddDays(-1);
string connectionString = _configuration.GetConnectionString("DefaultConnection");
using (SqlConnection connection = new SqlConnection(connectionString))
  using (SqlCommand command = new SqlCommand("AttendanceSum", connection))
     command.CommandType = CommandType.StoredProcedure;
     command.Parameters.AddWithValue("@ComId", comid);
     command.Parameters.AddWithValue("@dtTO", startDate);
     command.Parameters.AddWithValue("@dtFrom", endDate);
```

```
connection.Open();
            command.ExecuteNonQuery();
         }
       }
      return RedirectToAction(nameof(Index));
    }
    // GET: Attendances/Edit/5
    public async Task<IActionResult> Edit(Guid Comld, Guid Empld, DateTime dtDate)
     {
       if (EmpId == null )
       {
         return NotFound();
       }
       var attendanceRepo = _unitOfWork.GetRepository<Attendance>();
       var attendance = await attendanceRepo.GetByld(ComId, EmpId, dtDate);
       if (attendance == null)
         return NotFound();
       return View(attendance);
    }
    // For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.
     [HttpPost]
     [ValidateAntiForgeryToken]
     public async Task<IActionResult> Edit(Guid id, [Bind("Comld,Empld,dtDate,AttStatus,InTime,OutTime")] Attendance
attendance)
     {
```

```
var attendanceRepo = _unitOfWork.GetRepository<Attendance>();
  try
  {
     await attendanceRepo.Update(attendance, attendance.Comld, attendance.Empld, attendance.dtDate);
  }
  catch (DbUpdateConcurrencyException e)
  {
    return BadRequest(e.Message);
  }
  return RedirectToAction(nameof(Index));
public JsonResult GetEmployees(string companyId)
  List<Employee> filteredEmployees = GetFilteredEmployees(companyId);
  var filteredEmployeeData = filteredEmployees.Select(e => new { EmpId = e.EmpId, EmpName = e.EmpName });
  return Json(filteredEmployeeData);
}
private List<Employee> GetFilteredEmployees(string companyId)
  List<Employee> employees = new List<Employee>();
  Guid guid;
  guid = Guid.Parse(companyId);
  List<Employee> filteredEmployees = _context.Employee.Where(e => e.ComId == guid).ToList();
  return filteredEmployees;
```

```
public async Task<IActionResult> Delete(Guid? Comld, Guid? Empld, DateTime dtDate)
{
  if (EmpId == null || _context.Attendance == null)
  {
    return NotFound();
  }
  var attendance = await _context.Attendance
     .Include(a => a.Com)
     .Include(a => a.Emp)
     .FirstOrDefaultAsync(m => m.ComId == ComId);
  if (attendance == null)
  {
     return NotFound();
  }
  return View(attendance);
}
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public async Task<IActionResult> DeleteConfirmed(Attendance attendances)
  var attendanceRepo = _unitOfWork.GetRepository<Attendance>();
  var company = await attendanceRepo.GetByld(attendances.ComId, attendances.Empld, attendances.dtDate);
  if (company is null)
     return NotFound();
  }
  await attendanceRepo.Delete(attendances,attendances.Comld, attendances.Empld, attendances.dtDate);
  return RedirectToAction(nameof(Index));
```

}

```
private bool AttendanceExists(Guid id)
{
   return (_context.Attendance?.Any(e => e.ComId == id)).GetValueOrDefault();
}
```

Here we can also filter the Attendance list data based on Attendance status like All, Present, Late, Absent. It is also done by store procedure.

GTHRTraining Home Company Department Designation Shift Employee Attendance AttSummary Salary

Index Create New 06/15/2023 ComName AttStatus dtDate InTime OutTime Action Emp GTR Farukul Islam 2023-06-15T14:57:00 08:00:00 18:00:00 Edit | Delete

Attendance summary controller

```
{
       var companyRepo = _unitOfWork.GetRepository<Company>();
       var employeeRepo = _unitOfWork.GetRepository < Employee > ();
       ViewData["ComId"] = new SelectList(await companyRepo.Where(x => true), "ComId", "ComName");
       var comid = Guid.Parse(Request.Cookies["comld"]);
       ViewData["EmpId"] = new SelectList(await employeeRepo.Where(x => x.ComId == comid), "EmpId", "EmpName");
       return View();
    }
    [HttpPost]
    [ValidateAntiForgeryToken]
    public async Task < IActionResult > Create([Bind("Comld,Empld,dtYear,dtMonth,Present,Late,Absent,WDay")] AttSummary
attSummary)
    {
       var companyRepo = _unitOfWork.GetRepository<Company>();
       var employeeRepo = _unitOfWork.GetRepository<Employee>();
         attSummary.ComId = Guid.NewGuid();
         _context.Add(attSummary);
         await context.SaveChangesAsync();
         return RedirectToAction(nameof(Index));
    }
    // GET: AttSummaries/Edit/5
    public async Task<IActionResult> Edit(Guid? id)
      if (id == null || context.AttSummary == null)
         return NotFound();
       var attSummary = await _context.AttSummary.FindAsync(id);
      if (attSummary == null)
      {
         return NotFound();
      }
       var companyRepo = _unitOfWork.GetRepository<Company>();
       var employeeRepo = _unitOfWork.GetRepository < Employee > ();
       ViewData["ComId"] = new SelectList(await companyRepo.Where(x => true), "ComId", "ComName");
       var comid = Guid.Parse(Request.Cookies["comld"]);
       ViewData["EmpId"] = new SelectList(await employeeRepo.Where(x => x.ComId == comid), "EmpId", "EmpName");
       return View(attSummary);
    }
    [HttpPost]
    [ValidateAntiForgeryToken]
    public async Task<IActionResult> Edit(Guid id, [Bind("Comld,Empld,dtYear,dtMonth,Present,Late,Absent,WDay")]
AttSummary attSummary)
    {
       if (id != attSummary.ComId)
         return NotFound();
       if (ModelState.IsValid)
         try
```

```
_context.Update(attSummary);
       await _context.SaveChangesAsync();
     catch (DbUpdateConcurrencyException)
       if (!AttSummaryExists(attSummary.ComId))
       {
         return NotFound();
       else
         throw;
       }
    }
     return RedirectToAction(nameof(Index));
  var companyRepo = _unitOfWork.GetRepository < Company > ();
  var employeeRepo = unitOfWork.GetRepository < Employee > ();
  ViewData["ComId"] = new SelectList(await companyRepo.Where(x => true), "ComId", "ComName");
  var comid = Guid.Parse(Request.Cookies["comld"]);
  ViewData["EmpId"] = new SelectList(await employeeRepo.Where(x => x.ComId == comid), "EmpId", "EmpName");
  return View(attSummary);
}
// GET: AttSummaries/Delete/5
public async Task<IActionResult> Delete(Guid? id)
{
  if (id == null || _context.AttSummary == null)
     return NotFound();
  var attSummary = await _context.AttSummary
     .Include(a => a.Com)
     .Include(a => a.Emp)
     .FirstOrDefaultAsync(m => m.ComId == id);
  if (attSummary == null)
     return NotFound();
  return View(attSummary);
// POST: AttSummaries/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public async Task<IActionResult> DeleteConfirmed(Guid id)
  if (_context.AttSummary == null)
     return Problem("Entity set 'HRdbContext.AttSummary' is null.");
  var attSummary = await _context.AttSummary.FindAsync(id);
  if (attSummary != null)
```

```
{
    _context.AttSummary.Remove(attSummary);
}

await _context.SaveChangesAsync();
    return RedirectToAction(nameof(Index));
}

private bool AttSummaryExists(Guid id)
{
    return (_context.AttSummary?.Any(e => e.ComId == id)).GetValueOrDefault();
}
}
```

It will be auto created and updated based on Insert and update on Attendance Table which is maintained by trigger.

GTHRTraining Home Company Department Designation Shift Employee Attendance AttSummary Salary

Index

Create New

Com	Emp	Present	Late	Absent	
GTR	Emran	6	1	2	Edit Details Delete
GTR	MD. AHSAN ULLAH	3	2	1	Edit Details Delete
GTR	Farukul Islam	7	1	1	Edit Details Delete

Salary Controller

```
public class SalariesController: Controller
    private readonly IUnitOfWork _unitOfWork;
     private readonly HRdbContext _context;
    private readonly IConfiguration _configuration;
    public SalariesController( HRdbContext context, IConfiguration configuration ,IUnitOfWork unitOfWork)
       _context = context;
       configuration = configuration;
       _unitOfWork = unitOfWork;
    // GET: Salaries
    public async Task<IActionResult> Index()
       var salaryRepo = _unitOfWork.GetRepository < Salary > ();
       var companyRepo = _unitOfWork.GetRepository<Company>();
       var _empRepo = _unitOfWork.GetRepository<Employee>();
       var _deptRepo = _unitOfWork.GetRepository < Department > ();
       var data = await salaryRepo.GetAllAsync();
       var comid = Guid.Parse(Request.Cookies["comld"]);
       data = data.Where(x => x.ComId == comid);
       foreach (var flag in data)
```

```
Expression<Func<Company, bool>> predicate = x => x.ComId == flag.ComId;
    flag.ComName = (await companyRepo.Where(predicate)).Select(y => y.ComName).FirstOrDefault();
  foreach (var flag in data)
    Expression<Func<Employee, bool>> predicate = x => x.ComId == comid && x.EmpId == flag.EmpId;
    flag.EmpName = (await _empRepo.Where(predicate)).Select(y => y.EmpName).FirstOrDefault();
  ViewData["DeptId"] = new SelectList(await _deptRepo.Where(x => x.ComId == comid), "DeptId", "DeptName");
  return View(data);
}
public async Task<IActionResult> FilterData(Guid Dept)
  string connectionString = _configuration.GetConnectionString("DefaultConnection");
  var salaries = new List<Salary>();
  var comid = Guid.Parse(Request.Cookies["comld"]);
  using (var connection = new SqlConnection(connectionString))
    connection.Open();
    var command = new SqlCommand("SalaryList", connection);
    command.CommandType = CommandType.StoredProcedure;
    // Add parameters
    command.Parameters.AddWithValue("@ComId", Guid.Parse(Request.Cookies["comId"]));
    command.Parameters.AddWithValue("@DeptId", Dept);
    command.Parameters.AddWithValue("@Criteria", 0);
    using (var reader = command.ExecuteReader())
    {
       while (reader.Read())
         var salary = new Salary
           ComId = reader.GetGuid(reader.GetOrdinal("ComId")),
           EmpId = reader.GetGuid(reader.GetOrdinal("EmpId")),
           dtYear = reader.GetString(reader.GetOrdinal("dtYear")),
           dtMonth = reader.GetString(reader.GetOrdinal("dtMonth")),
           Gross = reader.GetDouble(reader.GetOrdinal("Gross")),
           Basic = reader.GetDouble(reader.GetOrdinal("Basic")),
           Hrent = reader.GetDouble(reader.GetOrdinal("Hrent")),
           Medical = reader.GetDouble(reader.GetOrdinal("Medical")),
           AbsentAmount = Math.Round(reader.GetDouble(reader.GetOrdinal("AbsentAmount")), 2),
           PayableAmount = Math.Round(reader.GetDouble(reader.GetOrdinal("PayableAmount")), 2)
           // ... map other properties accordingly
         };
         salaries.Add(salary);
       }
    }
  var companyRepo = _unitOfWork.GetRepository < Company > ();
```

```
var _empRepo = _unitOfWork.GetRepository<Employee>();
       foreach (var flag in salaries)
       {
         Expression<Func<Company, bool>> predicate = x => x.ComId == flag.ComId;
         flag.ComName = (await companyRepo.Where(predicate)).Select(y => y.ComName).FirstOrDefault();
         Expression<Func<Employee, bool>> predicates = x => x.ComId == comid && x.EmpId == flag.EmpId;
         flag.EmpName = (await _empRepo.Where(predicates)).Select(y => y.EmpName).FirstOrDefault();
       return Json(salaries);
    }
    public async Task<IActionResult> Create()
       var companyRepo = unitOfWork.GetRepository<Company>();
       var _empRepo = _unitOfWork.GetRepository<Employee>();
       ViewData["ComId"] = new SelectList(await companyRepo.Where(x => true), "ComId", "ComName");
       var comid = Guid.Parse(Request.Cookies["comld"]);
       ViewData["EmpId"] = new SelectList(await _empRepo.Where(x => x.ComId == comid), "EmpId", "EmpName");
       return View();
    }
    [HttpPost]
    [ValidateAntiForgeryToken]
    public async Task<IActionResult>
Create([Bind("ComId,EmpId,dtYear,dtMonth,Gross,Basic,Hrent,Medical,AbsentAmount,PayableAmount")] Salary salary)
    {
       var companyRepo = unitOfWork.GetRepository < Company > ();
       salary.ComId = Guid.Parse(Request.Cookies["comId"]);
       var Basic = await companyRepo.GetById(salary.ComId);
       var empBasic = _context.Employee.Where(x=>x.ComId == salary.ComId && x.EmpId == salary.EmpId).FirstOrDefault();
       salary.Basic = Basic.Basic * empBasic.Basic;
       salary.Hrent = Basic.Hrent * empBasic.Hrent;
       salary.Medical = Basic.Medical * empBasic.Medical;
       salary.Gross = empBasic.Gross;
       var absentamnt = _context.AttSummary.Where(x=> x.ComId == salary.ComId && x.EmpId == salary.EmpId &&
x.dtMonth == salary.dtMonth&& x.dtYear == salary.dtYear).FirstOrDefault();
       if (absentamnt != null)
         salary.AbsentAmount = salary.Basic / 30;
         salary.AbsentAmount = salary.AbsentAmount * absentamnt.Absent;
       }
       else
       {
         salary.AbsentAmount = 0;
       salary.PayableAmount = salary.Gross - salary.AbsentAmount;
         _context.Add(salary);
         await _context.SaveChangesAsync();
         return RedirectToAction(nameof(Index));
```

```
}
    public JsonResult GetEmployees(string companyId)
       List<Employee> filteredEmployees = GetFilteredEmployees(companyId);
       var filteredEmployeeData = filteredEmployees.Select(e => new { Empld = e.Empld, EmpName = e.EmpName });
       return Json(filteredEmployeeData);
    }
     private List<Employee> GetFilteredEmployees(string companyId)
       List<Employee> employees = new List<Employee>();
       Guid guid;
       guid = Guid.Parse(companyId);
       List<Employee> filteredEmployees = _context.Employee.Where(e => e.ComId == guid).ToList();
       return filteredEmployees;
    // GET: Salaries/Edit/5
    public async Task<IActionResult> Edit(Guid? id)
       if (id == null || _context.Salary == null)
         return NotFound();
       var salary = await _context.Salary.FindAsync(id);
       if (salary == null)
         return NotFound();
       var companyRepo = _unitOfWork.GetRepository < Company > ();
       var _empRepo = _unitOfWork.GetRepository<Employee>();
       var companies = await companyRepo.Where(x => x.ComId == salary.ComId);
       var employees = await _empRepo.Where(x => x.EmpId == salary.EmpId);
       ViewData["ComId"] = new SelectList(companies, "ComId", "ComName", salary.ComId);
       ViewData["EmpId"] = new SelectList(employees, "EmpId", "EmpName", salary.EmpId);
       return View(salary);
    }
    [HttpPost]
     [ValidateAntiForgeryToken]
    public async Task<IActionResult> Edit(Guid id,
[Bind("ComId,EmpId,dtYear,dtMonth,Gross,Basic,Hrent,Medical,AbsentAmount,PayableAmount")] Salary salary)
       var _salaryRepo = _unitOfWork.GetRepository < Salary > ();
       try
       {
         await _salaryRepo.Update(salary, salary.ComId, salary.EmpId, salary.dtMonth, salary.dtYear);
```

```
catch (DbUpdateConcurrencyException e)
         return BadRequest(e.Message);
       return RedirectToAction(nameof(Index));
    }
    // GET: Salaries/Delete/5
     public async Task < IActionResult > Delete(Guid? Comld, Guid? Empld, string dtMonth, string dtYear)
       var salaryRepo = unitOfWork.GetRepository < Salary > ();
       var salaries = await _salaryRepo.Where(s => s.ComId == ComId, s => s.Com, s => s.Emp);
       var salary = salaries.FirstOrDefault();
       if (salary == null)
         return NotFound();
       return View(salary);
    }
    // POST: Salaries/Delete/5
     [HttpPost, ActionName("Delete")]
     [ValidateAntiForgeryToken]
     public async Task<IActionResult> DeleteConfirmed(Salary salary)
       var _salaryRepo = _unitOfWork.GetRepository < Salary > ();
       var company = await _salaryRepo.GetById( salary.ComId, salary.EmpId, salary.dtMonth, salary.dtYear);
       if (company is null)
       {
          return NotFound();
       await _salaryRepo.Delete(salary, salary.ComId, salary.EmpId, salary.dtMonth, salary.dtYear);
       return RedirectToAction(nameof(Index));
    }
     private bool SalaryExists(Guid id)
      return (_context.Salary?.Any(e => e.ComId == id)).GetValueOrDefault();
It is also show salary report based on Department.
```

Index

Create New

SI											
Com	Emp	dtMonth	dtYear	Gross	Basic	Hrent	Medical	AbsentAmount	PayableAmount		
GTR	Emran	7	2023	10000	2500	900	361	0	10000	Edit Delete	
GTR	MD. AHSAN ULLAH	6	2023	10000	2500	900	225	83.33	9916.67	Edit Delete	

Store Procedure

• It will shift data from attendance table to attendance summary which in initialized in Create method in Attendance Controller

```
USE [MVCTask]
/***** Object: StoredProcedure [dbo].[AttendanceSum] Script Date: 6/26/2023 1:31:32 PM *****/
SET ANSI_NULLS ON
SET QUOTED IDENTIFIER ON
G0
-- exec AttendanceSum 'AC462C54-9DE2-48AE-B022-D727E62AA1D9', '01-Jun-2023', '30-Jun-2023', NULL
ALTER PROCEDURE [dbo].[AttendanceSum] @ComId UNIQUEIDENTIFIER, @dtTO DateTime, @dtFrom DateTime, @EmpId
UNIQUEIDENTIFIER
AS
BEGIN
                    DELETE FROM AttSummary
                    WHERE ComId = @ComId AND dtMonth = MONTH(@dtTO) AND dtYear = YEAR(@dtTO)
                    INSERT INTO AttSummary (ComId, EmpId, dtMonth, dtYear, Present, Late, Absent)
                     SELECT DISTINCT s.ComId, s.EmpId, MONTH(@dtTO), YEAR(@dtTO),0,0,0
                     FROM Attendance AS s
                     INNER JOIN Employee AS e ON e.Empid = s.EmpId AND e.ComId = s.ComId
                    WHERE e.Empid = s.EmpId
                    AND e.ComId = s.ComId
                    AND s.dtDate BETWEEN @dtTO AND @dtFrom and s.ComId = @ComId
    UPDATE att
    SET att.Present = COALESCE(sub.Present, 0),
        att.Late = COALESCE(sub.Late, 0),
        att.Absent = COALESCE(sub.Absent, 0)
    FROM AttSummary att
    LEFT JOIN (
        SELECT EmpId,
            COUNT(CASE WHEN AttStatus = 'P' THEN 1 END) AS Present,
            COUNT(CASE WHEN AttStatus = 'L' THEN 1 END) AS Late,
            COUNT(CASE WHEN AttStatus = 'A' THEN 1 END) AS Absent
        FROM Attendance
        WHERE AttStatus IN ('P', 'L', 'A') and dtDate between @dtTO and @dtFrom
        GROUP BY EmpId
    ) AS sub ON att.EmpId = sub.EmpId;
```

 It filter's the Attendance list based on Attendance Status used in FilterData of AttendanceController

```
USE [MVCTask]
/***** Object: StoredProcedure [dbo].[AttendanceList] Script Date: 6/28/2023 3:15:58 AM ******/
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
-- exec AttendanceList 'AC462C54-9DE2-48AE-B022-D727E62AA1D9', 'All', '12-Jun-2023'
ALTER PROCEDURE [dbo].[AttendanceList] @ComID uniqueidentifier, @status nvarchar(50), @date Date
AS
BEGIN
       if @status = 'All'
       BEGIN
              select * from Attendance at
              left outer join Employee e on at.EmpId = e.EmpId
             Where CONVERT(DATE, at.dtDate) = @date and at.ComId = @ComID
       END
       ELSE
       if @status = 'L'
       BEGIN
              select * from Attendance at
              left outer join Employee e on at.EmpId = e.EmpId
             Where at.AttStatus = 'L' and CONVERT(DATE, at.dtDate) = @date and at.ComId = @ComID
       END
       ELSE
       if @status = 'A'
       BEGIN
              select * from Attendance at
              left outer join Employee e on at.EmpId = e.EmpId
             Where at.AttStatus = 'A' and CONVERT(DATE, at.dtDate) = @date and at.ComId = @ComID
       END
       ELSE
       if @status = 'P'
       BEGIN
              select * from Attendance at
              left outer join Employee e on at.EmpId = e.EmpId
             Where at.AttStatus = 'P' and CONVERT(DATE, at.dtDate) = @date and at.ComId = @ComID
       END
```

END

 It shows the reports of Employee salary based on department and also returns the salary summary in Case of Criteria 1 used in FilterData In SalariesController.

```
USE [MVCTask]
GO
/****** Object: StoredProcedure [dbo].[SalaryList] Script Date: 6/28/2023 3:18:14 AM *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
-- exec SalaryList 'AC462C54-9DE2-48AE-B022-D727E62AA1D9', '0A150D0E-E14D-4C1F-8A16-C35D59D1D4B4', 1
ALTER PROCEDURE [dbo].[SalaryList] @ComId uniqueidentifier, @DeptId uniqueidentifier, @Criteria Int
```

```
AS
Begin
if @Criteria = 0
       BEGIN
              select * from Salary
              inner join Employee on Salary.EmpId = Employee.EmpId
              where Salary.ComId = @ComId and Employee.DeptId = @DeptId
       END
Else
       Begin
              SELECT
                            SUM(Salary.Gross) AS TotalGross,
                            SUM(Salary.Basic) AS TotalBasic,
                            SUM(Salary.PayableAmount) AS TotalPayable
                     FROM
                            INNER JOIN Employee ON Salary. EmpId = Employee. EmpId
                     WHERE
                            Employee.ComId = @ComId
                            AND Employee.DeptId = @DeptId
                     GROUP BY
                            Employee.ComId,
                            Employee.DeptId;
       END
```

END

Trigger

It will update attSummary table on update and insert of attendance USE [MVCTask] /***** Object: Trigger [dbo].[UpdateAttendanceSummary] Script Date: 6/26/2023 1:33:26 PM ******/ SET ANSI_NULLS ON SET QUOTED IDENTIFIER ON ALTER TRIGGER [dbo].[UpdateAttendanceSummary] ON [MVCTask].[dbo].[Attendance] AFTER INSERT, UPDATE AS **BEGIN** SET NOCOUNT ON; -- Update the corresponding rows in [AttendanceSummary] for INSERT operation **UPDATE** ASummary SET ASummary.Present = ASummary.Present + CASE WHEN I.AttStatus = 'P' THEN 1 ELSE 0 END, ASummary.Late = ASummary.Late + CASE WHEN I.AttStatus = 'L' THEN 1 ELSE 0 END, ASummary.Absent = ASummary.Absent + CASE WHEN I.AttStatus = 'A' THEN 1 ELSE 0 END FROM [MVCTask].[dbo].[AttSummary] ASummary INNER JOIN inserted I ON ASummary.ComId = I.ComId AND ASummary.EmpId = I.EmpId AND ASummary.dtYear = YEAR(I.dtDate)

AND ASummary.dtMonth = MONTH(I.dtDate);

```
-- Update the corresponding rows in [AttendanceSummary] for UPDATE operation
  UPDATE ASummary
  SET ASummary.Present = ASummary.Present +
      CASE WHEN I.AttStatus = 'P' THEN 1 ELSE 0 END -
      CASE WHEN D.AttStatus = 'P' THEN 1 ELSE 0 END,
      ASummary.Late = ASummary.Late +
      CASE WHEN I.AttStatus = 'L' THEN 1 ELSE 0 END -
      CASE WHEN D.AttStatus = 'L' THEN 1 ELSE 0 END,
      ASummary.Absent = ASummary.Absent +
      CASE WHEN I.AttStatus = 'A' THEN 1 ELSE 0 END - CASE WHEN D.AttStatus = 'A' THEN 1 ELSE 0 END
  FROM [MVCTask].[dbo].[AttSummary] ASummary
  INNER JOIN inserted I ON ASummary.ComId = I.ComId
                        AND ASummary.EmpId = I.EmpId
                        AND ASummary.dtYear = YEAR(I.dtDate)
                        AND ASummary.dtMonth = MONTH(I.dtDate)
  INNER JOIN deleted D ON ASummary.ComId = D.ComId
                        AND ASummary.EmpId = D.EmpId
                        AND ASummary.dtYear = YEAR(D.dtDate)
                        AND ASummary.dtMonth = MONTH(D.dtDate);
END;
       It will update salary table on insert, update of Attendance and attsummary
       table also
USE [MVCTask]
/***** Object: Trigger [dbo].[UpdateSalaryAbsentAmount]
                                                              Script Date: 6/26/2023 1:34:55 PM ******/
SET ANSI NULLS ON
G0
SET QUOTED IDENTIFIER ON
ALTER TRIGGER [dbo].[UpdateSalaryAbsentAmount]
ON [MVCTask].[dbo].[AttSummary]
AFTER UPDATE
AS
BEGIN
  SET NOCOUNT ON;
  -- Check if the relevant columns were updated
  IF UPDATE(Present) OR UPDATE(Late) OR UPDATE(Absent)
  BEGIN
    -- Update the corresponding rows in [Salary]
    UPDATE TOP (10000) Salary
    SET Salary.AbsentAmount = ASummary.Absent * (Salary.Basic /30),
       Salary.PayableAmount = Salary.Gross - Salary.AbsentAmount
    FROM [MVCTask].[dbo].[Salary] Salary
    INNER JOIN inserted ASummary ON Salary.ComId = ASummary.ComId
                                AND Salary.EmpId = ASummary.EmpId
                                AND Salary.dtYear = ASummary.dtYear
```

AND Salary.dtMonth = ASummary.dtMonth;

END;