**Create Employee Class with following attributes**

**id ,name , manager , dept ,salary**

**Enter 10 Records using Collection Initializer**

**Use Linq to perform following tasks:**

**1. Display all the records**

**2. Display Employee who gets highest Salary**

**3. Display Employee who gets lowest Salary**

**4. Display total salary distributed to all Employees**

**5. Display avaerge salary distributed to all Employees**

**6. Display only Employee id, Employee Name, Department**

**7. How many Departments are there**

**8. Employees are having kumar in their names**

**9. Employees who are in HR Department**

using System;

using System.Collections.Generic;

using System.Linq;

namespace Employeedetails

{

public class Employee

{

public string name { get; set; }

public int id { get; set; }

public string manager { get; set; }

public string dept { get; set; }

public int salary { get; set; }

}

class Program

{

static void Main(string[] args)

{

List<Employee> employees = new List<Employee>()

{

new Employee {id=101, name="Amit " , salary=40000 , dept="HR" , manager="Adithya"},

new Employee {id=102, name="Kalyan " , salary=38000 , dept="Admin", manager="Karthik"},

new Employee {id=103, name="Salman" , salary=35000, dept="Financial",manager="Ajay Kumar"},

new Employee {id=104, name="Ram " , salary=20000 , dept="Admin", manager="Karthik"},

new Employee {id=105, name="Shyam " , salary=70000, dept="HR", manager="Adithya"},

new Employee {id=106, name="Kumar" , salary=50000, dept="Admin", manager="Karthik"},

new Employee {id=103, name="Noyel" , salary=35000, dept="Financial",manager="Ajay Kumar"},

new Employee {id=104, name="Lashya " , salary=20000, dept="Admin", manager="Karthik"},

new Employee {id=105, name="Harika " , salary=70000, dept="HR", manager="Adithya"},

new Employee {id=106, name="Abhjeet" , salary=50000, dept="Admin", manager="Karthik"},

};

var result = (from emp in employees

select new

{

id = emp.id,

name = emp.name,

salary = emp.salary,

dept = emp.dept,

manager = emp.manager,

}

).ToList();

Console.WriteLine("Employee Details:");

foreach (var e in result)

{

Console.WriteLine(" \t id: "+e.id+", name:"+e.name+", salary:"+e.salary+",dept:"+e.dept+",manager:"+e.manager+" ");

}

int whichsalary = 1;

var employee = (from emp in employees

group emp by emp.salary into g

orderby g.Key descending

select new

{

EmpRecord = g.ToList()

}).ToList();

employee[whichsalary - 1].EmpRecord.ForEach(i => Console.WriteLine("Highest Salary of employee {0} is {1}", i.name, i.salary));

var employee1 = (from emp in employees

group emp by emp.salary into g

orderby g.Key ascending

select new

{

EmpRecord = g.ToList()

}).ToList();

employee1[whichsalary - 1].EmpRecord.ForEach(i => Console.WriteLine("Lowest Salary of employee {0} is {1}", i.name, i.salary));

var sumof = (from num in employees

select num.salary).Sum();

Console.WriteLine("Total sum of salary is:" + sumof);

var average = (from num in employees

select num.salary).Average();

Console.WriteLine("Average of salary:" + average);

var e1 = (from emp in employees

select emp);

foreach (var emp in e1)

{

Console.WriteLine("EmpName:{0}, EmpId:{1}, Empdept:{2}", emp.name, emp.id, emp.dept);

}

var deprt = (from d in employees

select d.dept).Count();

Console.WriteLine("Count of department:" + deprt);

var emp4 = from v in employees

where v.dept == "HR"

select v;

foreach (var v in emp4)

{

Console.WriteLine("Employees in Hr dept:" +v.name);

}

var employee3 = from x in employees

where x.name == "kumar"

select x;

foreach (var x in employee3)

Console.WriteLine("the employee having kumar in dept is " + x.name);

}

}

}