Entity Framework – LINQ שליפות/הוספה/עדכון/מחיקה - הדגמה

```
var context = new LibraryDBContext();
            var books = context.BooksTbl.ToList();
            foreach (BooksTbl b in books)
                Console.WriteLine(b.BookName + " \t\" + b.CategoryId + " \t" + b.PublishYear + "
\t" + b.Price);
            Console.WriteLine("=======");
            var category2 = context.BooksTbl.Where(b => b.CategoryId == 2).ToList();
            var exists4 = context.BooksTbl.Any(b => b.CategoryId == 2);
            //sort
            var orderByYear = context.BooksTbl.OrderBy(x => x.PublishYear); //ThenBy() for secondary
sort
            foreach (BooksTbl b in orderByYear)
            {
                Console.WriteLine(b.BookName + " " + b.PublishYear);
            }
            Console.WriteLine("=======");
            var orderByYearDESC = context.BooksTbl.OrderByDescending(x => x.PublishYear);
            foreach (BooksTbl b in orderByYearDESC)
            {
                Console.WriteLine(b.BookName + " " + b.PublishYear);
            }
            ////sum, avg, count
            int sum5 = context.BooksTbl.Where(b => b.CategoryId == 5).ToList().Sum(x => x.Price);
            double avg5 = context.BooksTbl.Where(b => b.CategoryId == 5).ToList().Average(x =>
x.Price);
            double count5 = context.BooksTbl.Where(b => b.CategoryId == 5).ToList().Count;
            Console.WriteLine("sum--->" + sum5);
            Console.WriteLine("avg--->" + avg5);
            Console.WriteLine("count--->" + count5);
```

```
////// before insert
            var cat = context.CategoriesTbl.ToList();
            foreach (CategoriesTbl c in cat)
                Console.WriteLine(c.CategoryId + " \t" + c.CategoryName + " \t" + c.CategoryDesc);
            }
            //////insert
            var category = new CategoriesTbl() { CategoryName = "romance", CategoryDesc = "blabla"
};
            context.CategoriesTbl.Add(category);
            context.SaveChanges();
            //insert many
            List<CategoriesTbl> lst = new List<CategoriesTbl>();
            lst.Add(new CategoriesTbl() { CategoryName = "romance", CategoryDesc = "1" });
            lst.Add(new CategoriesTbl() { CategoryName = "romance2", CategoryDesc = "2" });
            lst.Add(new CategoriesTbl() { CategoryName = "romance3", CategoryDesc = "3" });
            context.CategoriesTbl.AddRange(lst);
            context.SaveChanges();
            Console.WriteLine("+++++++++");
            var cat = context.CategoriesTbl.ToList();
            foreach (CategoriesTbl c in cat)
            {
                Console.WriteLine(c.CategoryId + " \t" + c.CategoryName + " \t" + c.CategoryDesc);
            }
            //update
            var c1 = context.CategoriesTbl.Where(c => c.CategoryId == 2).FirstOrDefault();
            c1.CategoryDesc = "test";
            context.SaveChanges();
            //delete
            var c8 = context.CategoriesTbl.Where(c => c.CategoryId == 8).FirstOrDefault();
            context.CategoriesTbl.Remove(c8);
            context.SaveChanges();
            cat = context.CategoriesTbl.ToList();
            foreach (CategoriesTbl c in cat)
            {
                Console.WriteLine(c.CategoryId + " \t" + c.CategoryName + " \t" + c.CategoryDesc);
            }
```