# One-To-One

public class CustomerAddress

{

public int CustomerAddressId { get; set; }

public string Address { get; set; }

public string City { get; set; }

public string State { get; set; }

public string Country { get; set; }

public int AddressOfCustomerId { get; set; }

public Customer Customer { get; set; }

}

Modify Customer:

// one-to-one

public CustomerAddress Address { get; set; }

modify DbContext derived class OnModelCreating

// one-to-one

modelBuilder.Entity<Customer>()

.HasOne<CustomerAddress>(s => s.Address)

.WithOne(ad => ad.Customer)

.HasForeignKey<CustomerAddress>(ad => ad.AddressOfCustomerId);

# One-To-Many

public class CustomerType

{

public int CustomerTypeID { get; set; }

public string CustomerTypeName { get; set; }

// one-to-many

public ICollection<Customer> Customers { get; set; }

}

Modify Customer:

// one-to-many

public int CustomerTypeId { get; set; }

public CustomerType CustomerType { get; set; }

modify DbContext derived class OnModelCreating

// one-to-many

modelBuilder.Entity<Customer>()

.HasOne<CustomerType>(s => s.CustomerType)

.WithMany(g => g.Customers)

.HasForeignKey(s => s.CustomerTypeId);

# Many-to-Many

add-migration RelationshipMapping -verbose -startupproject shoppingcartef3 -project shoppingcartmigrations3