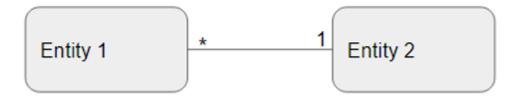
.Net Cheat sheet (Entity-FrameWork Part)

Relations:

OneToMany :

1/ Using Annotation



```
Entity1:

...

public type_mta_id_mta_entity_2 ent2FK { get; set; }

[ForeignKey(" ent2FK")]

public virtual Entity2 ent2 { get; set; }
```

2/ Using Fluent Api

2 ways with Fluent Api:

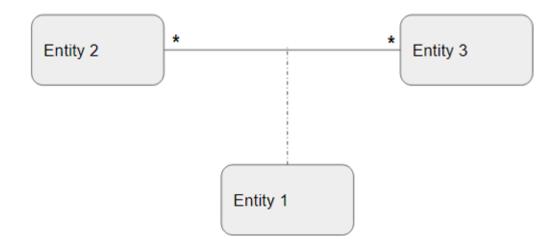
1/ configuration file => apply config 2/ context

1/ configuration file method

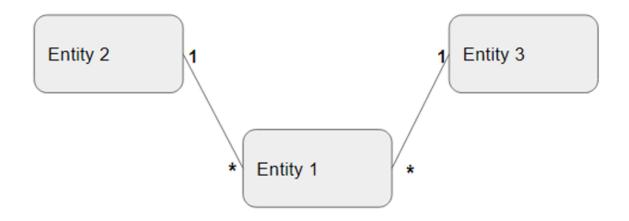
step1 add entity Config File ent1config under infrastructure:

```
public class Entity1config : IEntityTypeConfiguration {
public void Configure(EntityTypeBuilder builder) {
builder.HasOne(p => p.ent2 )
.WithMany(p => p.ent1)
.HasForeignKey(p => p.ent2FK)
}
step2: apply configuration go to OnModelCreating method in
Context class:
protected override void OnModelCreating(ModelBuilder
modelBuilder)
modelBuilder.ApplyConfiguration(new ent1config ());
2/ config relation directly in OnModelCreating
modelBuilder.Entity<Entity1>()
 .HasOne(p => p.ent2)
.WithMany(p => p.ent1)
.HasForeignKey(p => p.ent2FK)
!!! RQ: ManyToMany config (rename associative table):
builder.hasmany(t=>t.entx)
 .withmany(p=>p.enty)
.usingentity(p=>p.totable(" name"));
```

Table porteuse:



Convert to two 1..* relations 👍



Step1: config 2 OneToMany relations as previously mentioned.

```
Step2: primary key (Example: 2 foreign keys + prop):
```

Tomplex type:

** Type Détenue :

1/ Using Annotation

[Owned]

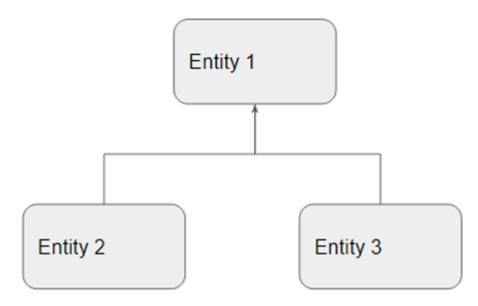
Entity3 string prop1 string prop2

Entity4
Entity3 prop

1/ Using Fluent Api

```
modelbuilder.Entity<Entity4>()
.Ownsone(p=>p.prop1,
p=>prop2);
```

** Heritage configuration:



```
public class Entity1
{
    public int Id { get; set; }
    public string CommonProperty { get; set; }
}

public class Entity2 : Entity1
{
    public string Property2 { get; set; }
}

public class Entity3 : Entity1
{
    public string Property3 { get; set; }
}
```

1/ TPH:Using discriminator

Either Onmodel creating method or entity file configuration :

RQ :HasDiscriminator<string>("EntityType") pour spécifier que la colonne discriminante s'appelle "EntityType" et utilise le type string.

!!!!!! Also We have to ADD DbSetOnly For Entity1 👍

1/ TPH:Using discriminator

Either Onmodel creating method or entity file configuration :

```
modelBuilder.Entity<Entity1>().ToTable("Entities");
modelBuilder.Entity<Entity2>().ToTable("Entity2");
modelBuilder.Entity<Entity3>().ToTable("Entity3");
```

!!!!!! Don't forget to add new DbSet for each entity 👍