# movRentv1.use

--This is a USE model of the first design of a movie rental system

model MovieRental

enum PriceCode {regular, family, newRelease}

class Customer
attributes
        name:String
operations
        addRental()

        getName()

        Statement()
                begin
                        declare m:Movie;
                        for ren in self.rentals do
                                ren.getDaysRented();
                                m := ren.getMovie();
                                m.getPriceCode();
                                m.getTitle();
                        end
                end
end

class Rental
attributes
        daysRented:Integer
operations
        getDaysRented()
                begin
                end

        getMovie(): Movie
                begin
                        result := self.movie
                end
end

class Movie
attributes
        title:String
        priceCode:PriceCode
operations
        getPriceCode()

```
                begin
                end

        setPriceCode()

        getTitle()
                begin
                end
end

association custRentals between
        Customer[1] role renter
        Rental[0..*] role rentals
end

association movRental between
        Rental[0..*] role movRentals
        Movie[1] role movie
end
```

# mr_cmds-v1.x

```
--This file creates 1 customer, 2movies, and 2rentals. It sets up
--associations between them, and finally calls the Statement() method
--for the customer.

!create c1:Customer
!create m1:Movie
!create r1:Rental
!set m1.priceCode := PriceCode::regular
!set m1.title := 'Movie1'
!set r1.daysRented := 5
!insert (c1,r1) into custRentals
!insert (r1,m1) into movRental

!create m2:Movie
!create r2:Rental
!set m2.priceCode := PriceCode::newRelease
!set m2.title := 'Movie2'
!set r2.daysRented := 3
!insert (c1,r2) into custRentals
!insert (r2,m2) into movRental

!c1.Statement()
```