//In a session, gender is not necessary to be meet, but it should be considered. Hence, it is categorized as soft constraint. Weightage is set to 80 because the least cost of a session is $80. This makes the soft score to be comparable to the cost.

rule "genderRule"

when

PhqProcess($selectedPractioner : selectedPractioner, selectedPractioner != null,

assignedPatient.preferGender != 0, // Patient prefer gender != "Any"

assignedPatient.preferGender == selectedPractioner.gender)

then

scoreHolder.addSoftConstraintMatch(kcontext, 80);

end

//In a session, location of patient and practitioner is not necessary to be matched, but it should be considered. Hence, it is categorized as soft constraint. The weightage is same as gender.

rule "locationRule"

when

PhqProcess($selectedPractioner : selectedPractioner, selectedPractioner != null,

assignedPatient.preferLocation != 0, // Patient prefer location != "Any"

assignedPatient.preferLocation == selectedPractioner.location)

then

scoreHolder.addSoftConstraintMatch(kcontext, 80);

end

//In a session, patient may choose his/her preferable day for the session. It is not necessary to be matched with practitioners’ slot, but it should be considered. Hence, it is categorized as soft constraint. The weightage is same as gender.

rule "preferDayRule"

when

PhqProcess($selectedPractioner : selectedPractioner, selectedPractioner != null,

$selectedPeriod : selectedPeriod, selectedPeriod != null,

assignedPatient.preferDay != null, // Patient prefer location != "Any"

assignedPatient.preferDay == selectedPeriod.day)

then

scoreHolder.addSoftConstraintMatch(kcontext, 80 );

end

//In a session, patient’s cost should be minimized if possible. The highest fee is $120, hence the soft score is the saving measured from highest cost.

rule "costRule"

when

PhqProcess($selectedPractioner : selectedPractioner, selectedPractioner != null)

then

scoreHolder.addSoftConstraintMatch(kcontext, 120-$selectedPractioner.getCostEachHour());

end