DMN Simulation with List

Item Definition and Input Data

- Define an Item Definition "Search" with two string attribute: "Classification" and "Genre", each attribute defined Allowed Values, which is used for auto-completion and validation.
- · Create an InputData "My Search" typed to Item Definition "Search". Give values for "Classification" and "Genre".



Decision Tables returning list as collection of values

- · Hit Policy: Collection
- · Business Knowledge Model defined a parameter Classification, used as input clause of the decision table.
- · Based on a Classification value, the decision table returns a list containing outputs of multiple hits.

Classifica	ation Input Parameter	Input Parameter Values for Simulation		
		(Classification = PG)		
	Classification	Film		
C	PG	[Harry Potter, Frozen, Beauty and the Beast]		
1	M	Avatar		
2	М	Titanic		
3	М	Star Wars		
4	M	Jurassic World		
5	М	The Avengers		
6	М	Furious 7		
7	PG	Harry Potter		
8	PG	Frozen		
9	PG	Beauty and the Beast		
10 M Transformers				

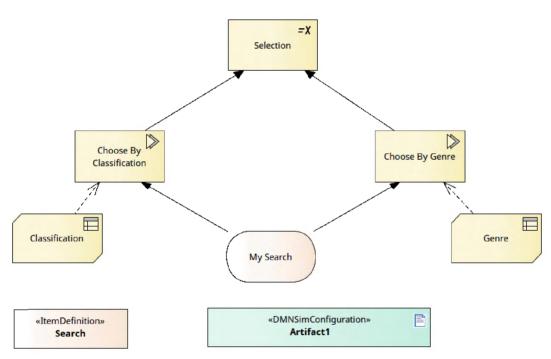
- · Hit Policy: Collection
- · Business Knowledge Model defined a parameter Genre, used as input clause of the decision table.
- · Based on a Genre value, the decision table returns a list containing outputs of multiple hits.

Genre	Input Parameter Values for S	imulation				
1						
		(Genre = Fantasy)				
	Genre	Film				
	Fantasy	[Avatar Harry Potter, Beauty and the Beast]				
1	Fantasy	Avatar				
2	Drama	Titanic				
3	Adventure	Star Wars				
4	Action	Jurassic World				
5	Action	The Avengers				
6	Action	Furious 7				
7	Fantasy	Harry Potter				
8	Kids & Family	Frozen				
9	Fantasy	Beauty and the Beast				
10	Action	Transformers				

DRG Diagram to perform a simple Film Query

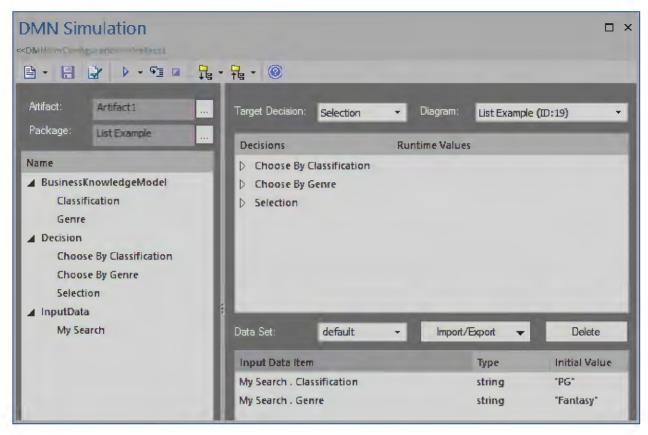
- Decisions "Choose By Classification" invoke BKM "Classification" by binding "My Search . Classification" to the parameter
- Decisions "Choose By Genre" invoke BKM "Genre" by binding "My Search . Genre" to the parameter
- Decision "Selection" is a literal expression: intersect(Choose By Classification, Choose By Genre)
- function "intersect" is defined in DMN Library, it will return a new list containing the intersection values of all list parameters.

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Simulation

- Create a DMNSimConfiguration element, double click to open it, choose "Selection" as Target Decision
- · Use the "Run" or "Step" button on the toolbar to play with the simulation



- · The result of each decision will be displayed on the diagram.
- · In this example, two movies "Harry Potter", "Beauty and the Beast" satisfy my search criteria.

