Decision tables cheat sheet

Attribute	Values	Count
Table orientation	horizontal, vertical, cross-tab	3
Information item name	present, absent	2
Output label	present, absent	2
Allowed values	present, absent	2
Inputs	absent, single, multiple	3
Outputs	single, multiple	2

Schematic layout of decision table with rules presented horizontally (rules as rows)

Information item name

H	Input expression 1	Input expression 2	Output label
	input value 1a, input value 1b	input value 2a, input value 2b	output value 1a, output value 1b
1	input entry 1.1	input entry 2.1	output entry 1.1
2	input entry 1.2	input entry 2.2	output entry 1.2
3	input entry 1.3	input entry 2.3	output entry 1.3

Schematic layout of decision table with rules presented horizontally (rules as rows) and single annotation

Information item name

H	Input expression 1	Input expression 2	Output label	Annotation
	input value 1a, input value 1b	input value 2a, input value 2b	output value 1a, output value 1b	
1	input entry 1.1	input entry 2.1	output entry 1.1	annotation entry 1
2	input entry 1.2	input entry 2.2	output entry 1.2	annotation entry 2
3	input entry 1.3	input entry 2.3	output entry 1.3	annotation entry 3

Schematic layout of decision table with rules presented horizontally (rules as rows) and multiple annotations

Information item name

H	Input expression 1	Input expression 2	Output label	Annotation 1	Annotation 2
	input value 1a, input value 1b	input value 2a, input value 2b	output value 1a, output value 1b		
1	input entry 1.1	input entry 2.1	output entry 1.1	annotation entry 1.1	annotation entry 2.1
2	input entry 1.2	input entry 2.2	output entry 1.2	annotation entry 1.2	annotation entry 2.2
3	input entry 1.3	input entry 2.3	output entry 1.3	annotation entry 1.3	annotation entry 2.3

Decision table that returns a list of all days in a week

C	Weekdays
1	"Monday"
2	"Tuesday"
3	"Wednesday"
4	"Thursday"
5	"Friday"
6	"Saturday"
7	"Sunday"

This decision table has no input clauses, which means all rules match. While the hit policy is **C**, which means just collect the outputs (without aggregation), so the result from this decision table will be a list of output values:

```
["Monday","Tuesday","Wednesday","Thursday","Friday","Saturday","Sunday"]
```

Decision table that returns a list of workdays or weekend days

C	Kind	Weekdays
1	"work"	"Monday"
2	"work"	"Tuesday"
3	"work"	"Wednesday"
4	"work"	"Thursday"
5	"work"	"Friday"
6	"weekend"	"Saturday"
7	"weekend"	"Sunday"

When **Kind** is **"work"** the resulting list will be:

```
["Monday","Tuesday","Wednesday","Thursday","Friday"]
```

When **Kind** is **"weekend"** the resulting list will contain:

```
["Saturday","Sunday"]
```

Styling hit policy in horizontal orientation (rules as rows)

U	Input expressions?	Allowed values?	Compound output?	Styles and settings	
				Style	Rowspan
1	true	true	true	"h-hit-policy-A"	3
2	false	true	true	"h-hit-policy-B"	3
3	true	false	true	"h-hit-policy-A"	2
4	false	false	true	"h-hit-policy-B"	2
5	true	true	false	"h-hit-policy-A"	2
6	false	true	false	"h-hit-policy-B"	2
7	true	false	false	"h-hit-policy-A"	1
8	false	false	false	"h-hit-policy-B"	1

Styling rule number

U	Input expressions?	Last rule?	Orientation	Style
1	true	true	HORIZONTAL	.horz-rule-number-last
2	false	true	HORIZONTAL	.horz-rule-number-no-input-last
3	true	false	HORIZONTAL	.horz-rule-number
4	false	false	HORIZONTAL	.horz-rule-number-no-input
5	true	true	VERTICAL	?
6	false	true	VERTICAL	?
7	true	false	VERTICAL	?
8	false	false	VERTICAL	?

Styling output label in horizontal orientation (rules as rows)

U	Allowed values?	Compound output?	Annotations present?	Style
1	true	true	true	?

U				
2	false	true	true	?
3	true	false	true	"h-output-label-C"
4	false	false	true	?
5	true	true	false	?
6	false	true	false	?
7	true	false	false	"h-output-label-B"
8	false	false	false	"h-output-label-A"

Styling annotation in horizontal orientation (rules as rows)

U	Last column?	Allowed values?	Compound output?	Styles and settings	
				Style	Rowspan
1	true	true	true	"h-annotation-A"	3
2	false	true	true	"h-annotation-B"	3
3	true	false	true	"h-annotation-A"	2
4	false	false	true	"h-annotation-B"	2
5	true	true	false	"h-annotation-A"	2
6	false	true	false	"h-annotation-B"	2
7	true	false	false	"h-annotation-A"	1
8	false	false	false	"h-annotation-B"	1

Styling annotation entry in horizontal orientation (rules as rows)

U	Last column?	Last row?	Style
1	true	true	"h-annotation-entry-B"
2	false	true	"h-annotation-entry-D"
3	true	false	"h-annotation-entry-A"
4	false	false	"h-annotation-entry-C"