

Red Hat Decision Manager 7.1

Getting started with decision services

Last Updated: 2020-05-26

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Abstract

In this tutorial, you will create and test a driver's license suspension scenario.

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PREFACE

As a business analyst or rules developer, you can use Decision Central in Red Hat Decision Manager to design a variety of decision services. In this tutorial, you will create and test a driver's license suspension scenario.

Prerequisites

- Red Hat JBoss Enterprise Application Platform 7.1.0 is installed. For details, see *Red Hat JBoss EAP 7.1.0 Installation Guide*.
- Red Hat Decision Manager is installed and configured with Decision Server. For more information, see *Installing and configuring Red Hat Decision Manager on Red Hat JBoss EAP 7.1*.
- Red Hat Decision Manager is running and you can log in to Decision Central with the **developer** role. For more information, see *Planning a Red Hat Decision Manager installation*.

CHAPTER 1. CREATING THE TRAFFIC VIOLATIONS PROJECT

A project is the container for assets such as data objects, guided decision tables, and guided rules. For this tutorial, you will create the **Driver_department_traffic_violations** project.

Procedure

- 1. Log in to Decision Central.
- 2. Go to Menu → Design → Projects.

Tip: Red Hat Decision Manager provides a default space called **MySpace**, as shown in the following image. You can use the default space to create and test example projects.

Figure 1.1. Default spaces



- 3. Click Add Project.
- 4. Enter **Driver_department_traffic_violations** in the **Name** field.
- 5. Click Add.

Figure 1.2. Add Project window



The Assets view of the project opens.

CHAPTER 2. DATA OBJECTS

Data objects are the building blocks for the rule assets that you create. Data objects are custom data types implemented as Java objects in specified packages of your project. For example, you might create a **Person** object with data fields **Name**, **Address**, and **DateOfBirth** to specify personal details for loan application rules. These custom data types determine what data your assets and your decision services are based on.

The following tables show the **Violation** and **Driver** data objects that you will create in this tutorial.

Table 2.1. Violation data object

ID	Label	Туре
code	Code	String
points	Points	Integer
violationDate	Violation Date	Date
type	Туре	String
fineAmount	Fine Amount	Double
speedLimit	Speed Limit	Integer
actualSpeed	Actual Speed	Integer

Table 2.2. Driver data object

ID	Label	Туре
name	Name	String
age	Age	Integer
state	State	String
city	City	String
violations	Violations	Violation (org.jboss.example.traffic_violatio ns.Violation) Note: The violations field is set to "List" to hold multiple items for the given type.
fineAmount	Fine Amount	Double
totalPoints	Total Points	Integer

ID	Label	Туре
reason	Reason	String

2.1. CREATING THE VIOLATION DATA OBJECT

The **Violation** data object contains data fields based on violation details, such as **Violation Date**, **Fine Amount**, and **Speed Limit**.

Prerequisites

You have created the **Driver_department_traffic_violations** project.

Procedure

- 1. Click Add Asset → Data Object.
- 2. In the Create new Data Object wizard, enter the following values:
 - Data Object: Violation
 - Package: select com.myspace.driver_department_traffic_violations
- 3. Click **Ok**.

Figure 2.1. Create new Data Object window



2.1.1. Adding the Violation data object constraints

Populate the **Violation** data object fields with the constraints that you will select when you define your rules.

Prerequisites

You have created the Violation data object.

Procedure

1. In the 'Violation'-general properties section, enter Violation in the Label field.

Figure 2.2. General properties

'Violation (Violation)'- general properties		
Identifier	Violation		
Label	Violation		
Description			2
Package	com.myspace.driver_department_traffic_violations	~	+
Superclass	java.lang.Object		V

- 2. Click + add field.
- 3. Enter the following values:
 - Id: code
 - Label: Code
 - Type: String
- 4. Click **Create and continue**, then enter the following values:
 - Id: points
 - Label: Points
 - Type: Integer
- 5. Click **Create and continue**, then enter the following values:
 - Id: violationDate
 - Label: Violation Date
 - Type: Date
- 6. Click **Create and continue**, then enter the following values:
 - Id: type
 - Label: Type
 - Type: String
- 7. Click **Create and continue**, then enter the following values:
 - Id: fineAmount

• Label: Fine Amount

• Type: Double

8. Click **Create and continue**, then enter the following values:

• Id: speedLimit

• Label: Speed Limit

• Type: Integer

9. Click Create and continue, then enter the following values:

• Id: actualSpeed

Label: Actual Speed

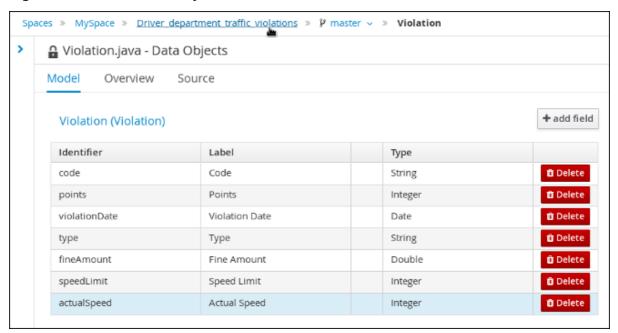
Type: Integer

10. Click Create.

11. Click Save, and then click Save to confirm your changes.

12. Click the **Driver_department_traffic_violations** label to return to the **Assets** view of the project.

Figure 2.3. Violation data object fields



2.2. CREATING THE DRIVER DATA OBJECT

The **Driver** data object contains data fields based on driver details, such as **Name**, **Age**, and **Total Points**.

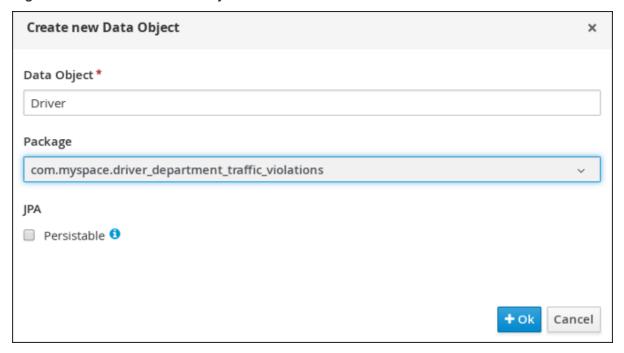
Prerequisites

You have created the **Driver_department_traffic_violations** project.

Procedure

- 1. Click Add Asset → Data Object.
- 2. In the Create new Data Object wizard, enter the following values:
 - Data Object: Driver
 - Package: select com.myspace.driver_department_traffic_violations
- 3. Click Ok.

Figure 2.4. Create new Data Object window



2.2.1. Adding the Driver data object constraints

Populate the **Driver** data object fields with the constraints that you will select when you define your rules.

Prerequisites

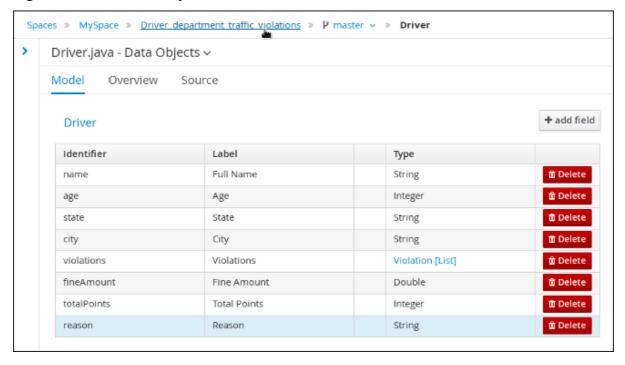
You have created the **Driver** data object.

- 1. In the 'Driver'-general properties section, enter Driver in the Label field.
- 2. Click + add field.
- 3. Enter the following values:
 - Id: name
 - Label: Full Name
 - Type: String
- 4. Click Create and continue, then enter the following values:

- Id: age
- Label: Age
- Type: Integer
- 5. Click **Create and continue**, then enter the following values:
 - Id: state
 - Label: State
 - Type: String
- 6. Click Create and continue, then enter the following values:
 - Id: city
 - Label: City
 - Type: String
- 7. Click **Create and continue**, then enter the following values:
 - Id: violations
 - Label: Violations
 - Type: Violation(com.myspace.driver_department_traffic_violations.Violation)
 - List: Select this check box to enable the field to hold multiple items for the specified type.
- 8. Click Create and continue, then enter the following values:
 - Id: fineAmount
 - Label: Fine Amount
 - Type: Double
- 9. Click **Create and continue**, then enter the following values:
 - Id: totalPoints
 - Label: Total Points
 - Type: Integer
- 10. Click **Create and continue**, then enter the following values:
 - Id: reason
 - Label: Reason
 - Type: String
- 11. Click Create.
- 12. Click Save, and then click Save to confirm your changes.

13. Click the **Driver_department_traffic_violations** label to return to the **Assets** view of the project.

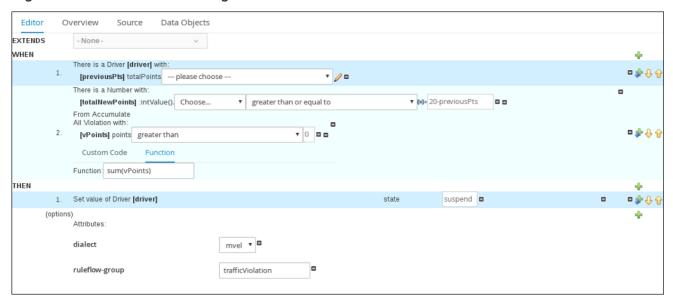
Figure 2.5. Driver data object fields



CHAPTER 3. GUIDED RULES

Guided Rules are business rules that you can create in a UI-based Guided Rules designer that leads you through the rule creation process. The rule designer provides fields and options for acceptable input based on the object model of the rule being edited. All data objects related to the rule must be in the same project package as the rule. Assets in the same package are imported by default. You can use the **Data Objects** tab of the rule designer to verify that all required data objects are listed or to import any other needed data objects.

Figure 3.1. The Guided Rule designer



3.1. CREATING THE DRIVER LICENSE SUSPENSION RULE

Create the Driver license suspension rule using the Guided Rule wizard.

Prerequisite

You have created both the Violation and Driver data objects.

- 1. Log in to Decision Central.
- 2. Click Menu → Design → Projects, then Driver_department_traffic_violations.
- 3. Click Add Asset → Guided Rule, then enter:
 - Guided Rule: DriverLicenseSuspensionRule
 - Package: com.myspace.driver department traffic violations
- 4. Click **Ok** to open the **Guided Rule designer**.

Figure 3.2. Create new Guided Rule window



3.2. SETTING THE SUSPENSION RULE CONDITIONS

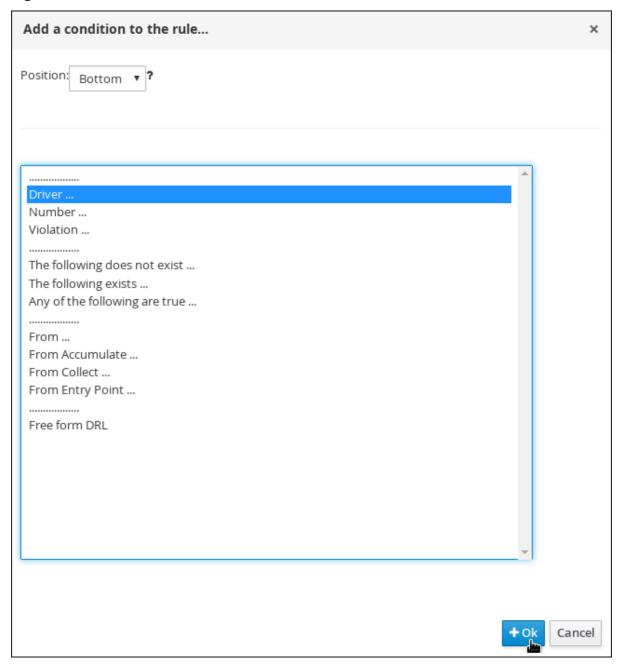
Set the **Suspension** rule conditions that are used to determine the driver's violation.

Prerequisite

You have created the Driver License Suspension rule.

- 1. Click () next to the WHEN label to open the Add a condition to the rulewindow.
- 2. Select **Driver** and click **Ok**.

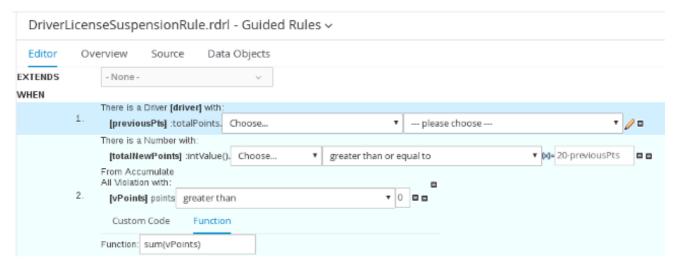
Figure 3.3. Create new Guided Rule window



- 3. Click the There is a Driver label to open the Modify constraints for Driver window.
- 4. Enter **driver** in the **Variable name** field and click **Set**.
- 5. Click There is a Driver[driver] and click Expression editor.
- 6. Click [not bound] to open the Expression editor.
- 7. In the **Bind the Expression to a new variable**field, enter: **previousPts** and click **Set**.
- 8. From the Choose menu, select totalPoints.
- 9. Click () next to line 1 (the **previousPts** label) to open the **Add a condition to the rule** window.
- 10. Select From Accumulate and click Ok.

- 11. Click **click to add pattern** above the **From Accumulate** label and select **Number** from the **choose fact type** menu.
- 12. Click There is a number label to open the Modify contraints for Driver window.
- 13. Click Expression editor and select intValue() from the [not bound]: Choose menu.
- 14. Click [not bound] to open the Expression editor.
- 15. In the Bind the Expression to a new variablefield, enter: totalNewPoints and click Set.
- 16. Click click to add pattern and select Violation from the choose fact type menu.
- 17. Click **All Violation with:** to open the **Modify contraints for Violation** window and select **points** from the **Add a restriction on a field**menu.
- 18. Click please choose next to the points label and select greater than.
- 19. Click (), and then click Literal value.
- 20. Click the **points** label to open the **Add a field** window.
- 21. Enter **vPoints** and click **Set**.
- 22. In the Function field, enter sum(vPoints).
- 23. Select greater than or equal to from the totalNewPoints → please choose menu.
- 24. Click (), click **New formula**, and enter **20-previousPts** in the new field.
- 25. Click Save, and then click Save to confirm your changes.

Figure 3.4. Suspension Rule conditions



3.3. SETTING THE SUSPENSION RULE ACTIONS

Set the **Suspension** rule actions that are used to determine a driver's resulting penalties, including points and fine amounts, based on the Suspension rule conditions.

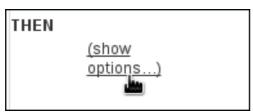
Prerequisite

You have set the Suspension rule conditions.

Procedure

1. Click (show options...).

Figure 3.5. show options selection



- 2. Click () next to the **THEN** label and select **Change field values of driver**, and click **Ok**.
- 3. Click the **Set value of Driver [driver]** field and select **state** from the **Add field** menu.
- 4. Click (o) next to state in the Set value of Driver [driver] section to open the Field value window.
- 5. Click **Literal value** and enter **suspend** in the new field.

Figure 3.6. New field



- 6. Click () next to the (options) label below the Set value of Driver [driver] section.
- 7. From the **Add an option to the rule**window, select the **ruleflow-group** option from the **Attribute** menu.
- 8. Enter trafficViolation in to the ruleflow-group field.
- 9. Click **Save**, and then click **Save** to confirm your changes.

Figure 3.7. Suspension rule actions



CHAPTER 4. GUIDED DECISION TABLES

Guided decision tables are a wizard-led alternative to uploaded decision table spreadsheets for defining business rules in a tabular format. With guided decision tables, you are led by a UI-based wizard in Decision Central that helps you define rule attributes, metadata, conditions, and actions based on specified data objects in your project. After you create your guided decision tables, the rules you defined are compiled into Drools Rule Language (DRL) rules as with all other rule assets.

All data objects related to a guided decision table must be in the same project package as the guided decision table. Assets in the same package are imported by default. After you create the necessary data objects and the guided decision table, you can use the **Data Objects** tab of the guided decision tables designer to verify that all required data objects are listed or to import other existing data objects by adding a **New item**.

4.1. CREATING A TRAFFIC VIOLATION GUIDED DECISION TABLE

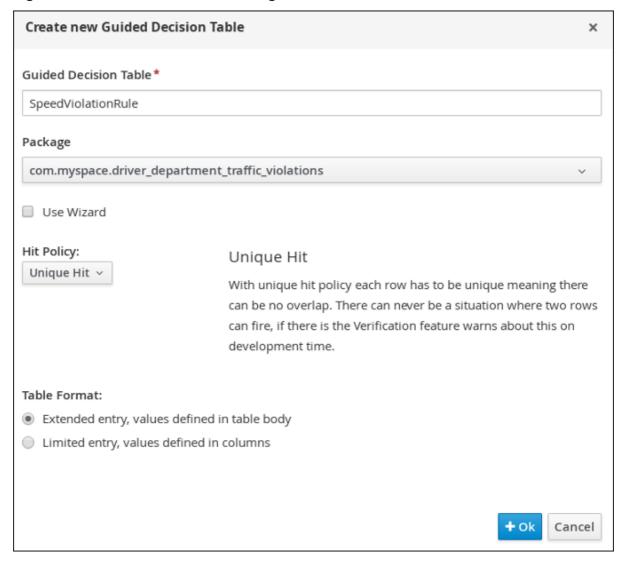
Use the Guided Decision Table designer to create the traffic violation guided decision table, which specifies the driver's specific violation and the resulting fine and points.

Prerequisite

You have created both the Violation and Driver data objects.

- 1. Log in to Decision Central.
- 2. Click Menu → Design → Projects, then Driver_department_traffic_violations.
- 3. Click Add Asset → Guided Decision Table, then enter:
 - Guided Decision Table: SpeedViolationRule
 - Package: com.myspace.driver department traffic violations
- 4. Select **Unique Hit** from the **Hit Policy** menu.
- 5. Select Extended entry, values defined in table bodyin the Table format section.
- 6. Click **Ok** to open the **Guided Decision Tables** designer.

Figure 4.1. Guided Decision Tables designer



4.1.1. Inserting Violation Type columns

The **Violation Type** column contains the violation details such as the the driver's speed and if the driver was under the influence of drugs or alcohol.

Prerequisite

You have created the traffic violation guided decision table.

Procedure

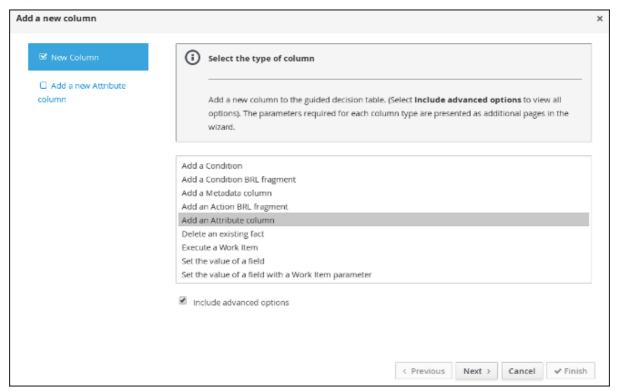
1. Click Columns → Insert Column and then select Include advanced options.

Figure 4.2. Column tab



2. Select Add an Attribute columnand click Next.

Figure 4.3. Add a new column window



- 3. Select Ruleflow-group and click Finish.
- 4. Expand Attribute columns and enter traffic Violation in the Default value field.

Figure 4.4. Attribute columns window



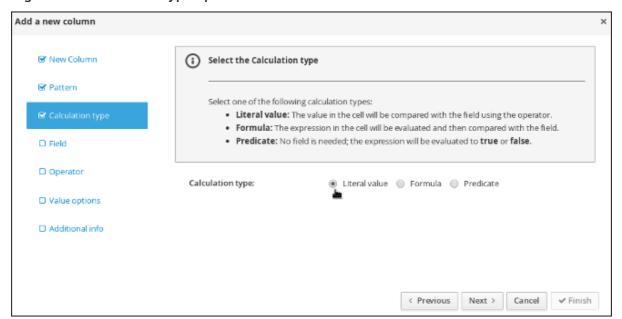
- 5. Click Insert Column, select Add a Condition → Pattern → +Create a new Fact Pattern
- 6. Select Violation from the Fact type menu, enter v in the Binding field, and click OK.

Figure 4.5. Create a new fact pattern window



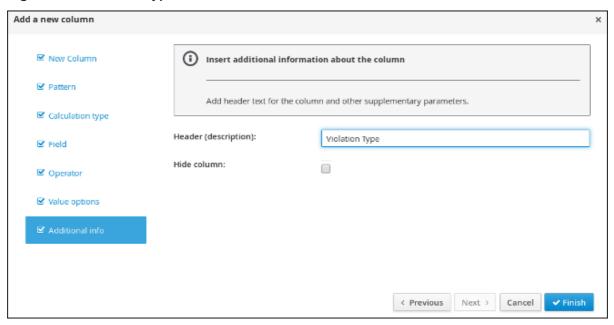
7. Select Calculation type → Literal value.

Figure 4.6. Calculation type options



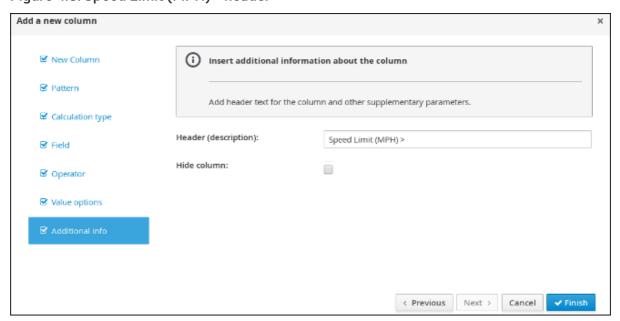
- 8. Select Field and then select type from the Field menu.
- 9. Select **Operator** and then **equal to** from the **Operator** menu.
- 10. Select Value options and enter Speed, Driving while intoxicated, DWI=Driving while under the influence of drugs in the Value list (optional) field.
- 11. Select Additional info, enter Violation Type in the Header (description) field, and click Finish.

Figure 4.7. Violation Type header



- 12. Click Insert Column, select Add a Condition → Pattern, and select Violation[v] from the Pattern menu.
- 13. Select Calculation type → Predicate → Field and enter actualSpeed-speedLimit > \$param.
- 14. Select Value options, then select Additional info and enter **Speed Limit (MPH)** > in the **Header (description)** field.
- 15. Click Finish.

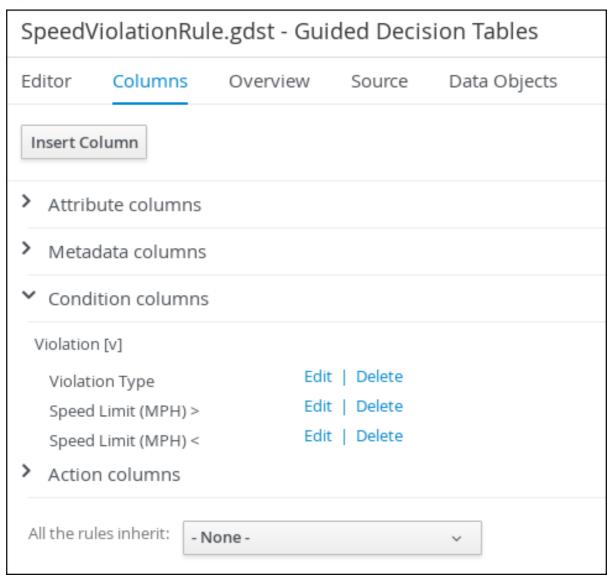
Figure 4.8. Speed Limit (MPH) > header



- 16. Click Insert Column, select Add a Condition → Pattern, and select Violation[v] from the Pattern menu.
- 17. Select Calculation type → Predicate.
- 18. Select Field and enter actualSpeed-speedLimit < \$param in the Field field.

- 19. Select **Operator**, select **Value options**, then select **Additional info**.
- 20. Enter **Speed Limit (MPH) <** in the **Header (description)** field and click **Finish**.

Figure 4.9. Condition columns



4.1.2. Inserting Fine Amount and Points columns

The **Fine Amount*** and **Points** columns contain the fines and points based on the corresponding **Violation Type** field values.

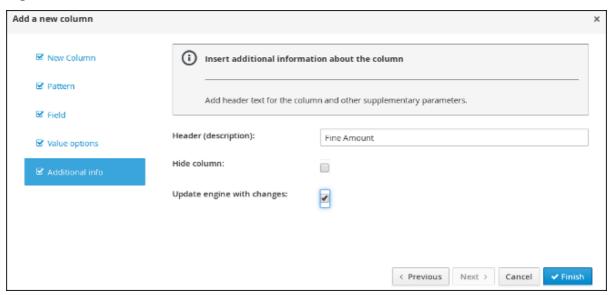
Prerequisite

You have inserted the **Violation Type** column in to the traffic violation guided decision table.

- Click Insert Column, select Set the value of a field→ Pattern, and select Violation[v] from the Pattern menu.
- 2. Select Field and then fineAmount from the Field menu.
- 3. Select Value options, and then select Additional info, and enter Fine Amount in the Header (description) field.

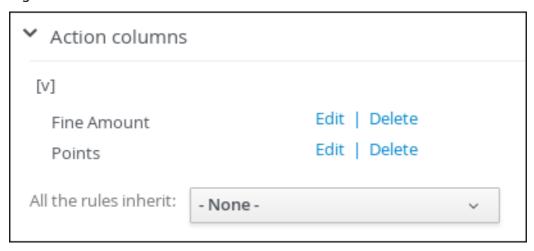
4. Select the **Update engine with changes** option and click **Finish**.

Figure 4.10. Fine Amount header



- 5. Click Insert Column, select Set the value of a field→ Pattern, and select Violation[v] from the Pattern menu.
- 6. Select **Field** and then **points** from the **Field** menu.
- 7. Select Value options, then select Additional info and enter Points in the Header (description) field.
- 8. Select the **Update engine with changes** option and click **Finish**.

Figure 4.11. Action columns



4.1.3. Inserting guided decision table rows

After you have created your columns in the guided decision table, you can add rows and define rules within the decision table designer.

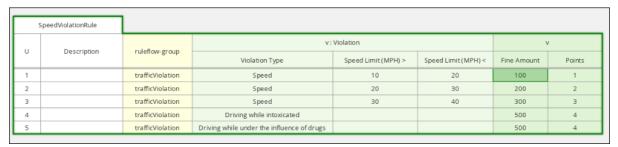
Prerequisite

You have created the **Violation Type**, **Fine Amount**, and **Points** columns in the traffic violation guided decision table.

Procedure

- 1. Click **Editor** → **Insert** → **Append row**. Repeat this step to add a total of five table rows.
- 2. Fill out the table as shown in the following example:

Figure 4.12. Populated data fields



3. Click **Save**, and then click **Save** to confirm your changes.

CHAPTER 5. TEST SCENARIOS

Test Scenarios in Red Hat Decision Manager enable you to validate the functionality of rules, models, and events before deploying them into production. A test scenario uses data for conditions that resemble an instance of your fact or project model. This data is matched against a specific set of rules and if the expected results match the actual results, the test is successful. If the expected results do not match the actual results, then the test fails.

After you run all test scenarios, the status of the scenarios is reported in a **Reporting** panel.

Test scenarios can be executed one at a time or as a group. The group execution contains all the scenarios from one package. Test scenarios are independent, so that one scenario cannot affect or modify the other.

5.1. TESTING THE SPEED LIMIT SCENARIO

Test the speed limit scenario using the data that you specified when you created the traffic violation guided decision table.

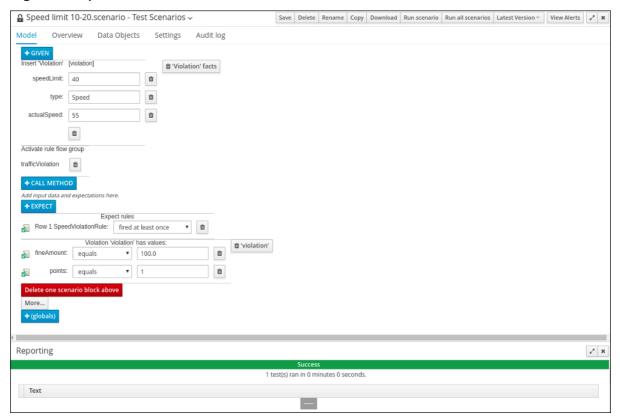
Prerequisites

- You have created the **Driver_department_traffic_violations** project.
- You have created the **Violation** and **Driver** data objects.
- You have created the speed violation guided decision table.

- 1. Log in to Decision Central.
- 2. Click Menu → Design → Projects, then Driver department traffic violations.
- 3. Click Add Asset → Test Scenario.
- 4. In the **Create new Test Scenario window**wizard, enter the following values:
 - a. Test Scenario: Speed limit 10-20.
 - b. Package: select com.myspace.driver department traffic violations.
- 5. Click **Ok**.
- 6. Click +GIVEN to open the New input window.
- 7. Select Violation from the Insert a new fact menu.
- 8. Enter violation in the Fact name field and click Add.
- 9. Click Add a field located under Insert 'Violation'[violation] to open the Choose a field to add window.
- 10. Select **speedLimit** from the **Choose a field to add**menu and click **OK**.
- 11. Click (), and then click Literal value next to speedLimit.

- 12. Click Literal value in the Field value window, then enter 40 in the speedLimit field.
- 13. Click Insert 'Violation'[violation].
- 14. Select **type** from the **Choose a field to add**menu in the **Choose a field to add**window, and click **OK**.
- 15. Click (), and then click **Literal value** next to **Literal value**.
- 16. Enter **Speed** in the **type** field.
- 17. Click Insert 'Violation'[violation].
- 18. Select actualSpeed from the Choose a field to addmenu, and click OK.
- 19. Click (), and then click **Literal value** next to **Literal value**.
- 20. Enter 55 in the actualSpeed field.
- 21. Click **+Expect** to open the **New expectation** window.
- 22. Expand the Rule menu, select Row 1 Speed Violation Rule, and click OK.
- 23. Click +GIVEN to open the New input window, enter trafficViolation in the Activate rule flow group field, and click Add.
- 24. Click **+Expect** to open the **New expectation** window and click **Add** next to **Fact value: violation**.
- 25. Click Violation 'violation' has values: to open the Choose a field to addwindow.
- 26. Select fineAmount from the Choose a field to addmenu and click OK.
- 27. Enter **100.0** in the **fineAmount: equals** field.
- 28. Click Violation 'violation' has values: to open the Choose a field to addwindow.
- 29. Select **points** from the **Choose a field to add**menu and click **OK**.
- 30. Enter **1** in the **points: equals** field.
- 31. Click Save, and then click Save to confirm your changes.
- 32. Click Run scenario.

Figure 5.1. Speed test results screen



If the values and conditions set in the test scenario meet the requirements as specified in the speed violation guided decision table, the Reporting section at the bottom of the window displays a Success message.

5.2. TESTING THE DRIVER LICENSE SUSPENSION SCENARIO

Test the driver license suspension scenario using the data that you specified when you set the Driver License Suspension rules and actions.

Prerequisites

- You have created the **Driver_department_traffic_violations** project.
- You have created the Violation and Driver data objects.
- You have set the Driver License Suspension rules and actions.

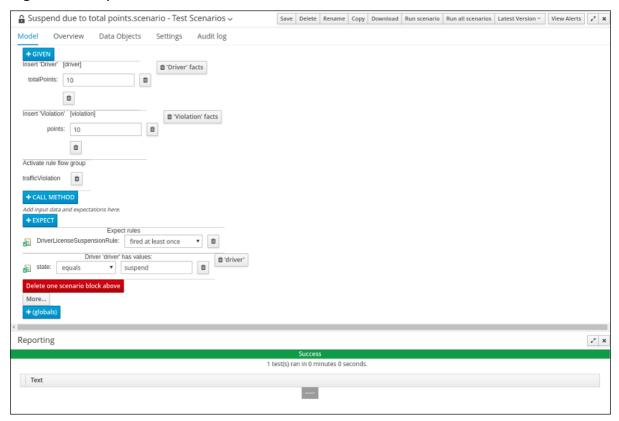
- 1. Log in to Decision Central.
- 2. Click Menu → Design → Projects, then Driver_department_traffic_violations.
- 3. Click Add Asset → Test Scenario.
- 4. In the Create new Test Scenario windowwizard, enter the following values:
 - a. Test Scenario: Suspend due to total points.
 - b. Package: select com.myspace.driver_department_traffic_violations.

- 5. Click **Ok**.
- 6. Click +GIVEN to open the New input window.
- 7. Select **Driver** from the **Insert a new fact** menu.
- 8. Enter **driver** in the **Fact name** field and click **Add**.
- 9. Click Add a field located under 'Driver' [driver] to open the Choose a field to addwindow.
- 10. Select totalPoints from the Choose a field to addmenu and click OK.
- 11. Click (o) next to totalPoints, click Literal value, then enter 10 in the totalPoints field.
- 12. Click +GIVEN to open the New input window.
- 13. Select Violation from the Insert a new fact menu.
- 14. Enter **violation** in the **Fact name** field and click **Add**.
- 15. Click **Add a field** located under **Insert 'Violation'[violation]** to open the **Choose a field to add** window.
- 16. Select points from the Choose a field to addmenu and click OK.
- 17. Click (), and then click **Literal value** next to **Literal value**.
- 18. Enter 10 in the points field.
- 19. Click **+Expect** to open the **New expectation** window.
- 20. Expand the Rule menu, select DriverLicenseSuspensionRule, and click OK.
- 21. Click +GIVEN to open the New input window, enter trafficViolation in the Activate rule flow group field, and click Add.
- 22. Click +Expect to open the New expectation window and click Add next to Fact value: driver.
- 23. Click Driver 'driver' has values: to open the Choose a field to addwindow.
- 24. Select state from the Choose a field to addmenu and click OK.
- 25. Enter **suspend** in the **state**: **equals** field.
- 26. Click **Save**, and then click **Save** to confirm your changes.
- 27. Click Run scenario.

Result

The rule is fired and the driver's license is suspended because the total number of points is >= 20.

Figure 5.2. Suspension test results screen



If the values and conditions set in the test scenario meet the requirements that you specified when you set the Driver License Suspension rules and actions, the Reporting section at the bottom of the window displays a Success message.

5.3. TESTING THE MULTIPLE VIOLATIONS SCENARIO

Copy the **Suspend due to total points**asset and modify it to create the driver license suspension scenario for drivers with multiple violations using the data that you specified when you set the Driver License Suspension rules and actions.

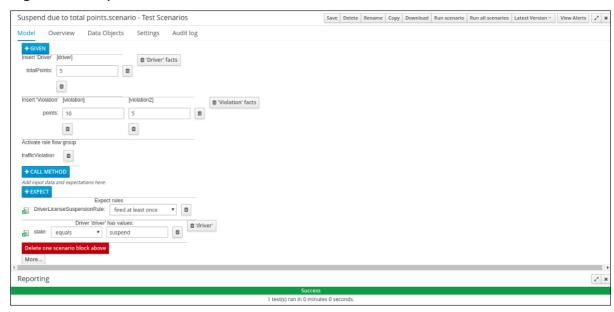
Prerequisites

- You have created the **Driver_department_traffic_violations** project.
- You have created the **Violation** and **Driver** data objects.
- You have set the driver license suspension rules and actions.

- 1. Log in to Decision Central.
- 2. Click Menu → Design → Projects, then Driver_department_traffic_violations.
- 3. Click Suspend due to total points→ Copy, enter Suspend due to multiple violations in the New Asset Name field, and click Make a Copy.
- 4. Click Space → MySpace → Driver_department_traffic_violations, and then select the Suspend due to multiple violations Asset.

- 5. Click +GIVEN to open the New input window.
- 6. Select Violation from the Insert a new fact menu.
- 7. Enter violation2 in the Fact name field and click Add.
- 8. Click (/) next to points, click Literal value, then enter 5 in the points → violation2 field.
- 9. In the totalPoints field, change the value from 10 to 5.
- 10. Click **Save**, and then click **Save** to confirm your changes.
- 11. Click Run scenario.

Figure 5.3. Suspension test results screen



If the values and conditions set in the test scenario meet the requirements that you specified when you set the Driver License Suspension rules and actions, the Reporting section at the bottom of the window displays a Success message.

APPENDIX A. VERSIONING INFORMATION

Documentation last updated on Friday, May 22, 2020.