Use case:

Class Customer {

            String name;

            String id;

            String dept;

            Map<String, String> jobAttrs;

}

 Class Response {

            Boolean isEligible;

            String result;

}

 Class Controller{

Customer c = new Customer();

c.setName(“RJ Drobick”);

c.setId(86182618);

c.setDept(“Executive”);

Map<String, String> attrs = new HashMap<String, String>();

attrs.put(“Business\_awards”, “B102,B6772”);

attrs.put(“Papers\_submitted”, “P898,P6151”);

attrs.put(“Recommendations”, “3”);

c.setJobsAttrs(attrs);

Response resp = new Response();

String filename = “file:rules/main/CustomerRules.xls”;

Decision decision = new Decision(“DetermineCustomerPromotionEligibility”, filename);

decision.put(“Customer”, c);

decision.put(“Response”, resp);

decision.execute();

System.out.println(decision.getOutput());

}

Class Utils {

 static boolean isEligibleForPromotion(

Map<String, String> attrs){

if (...)

              return true;

}

return false;

}

static Map<String, String> addJobAttribute(

Map<String, String> attrMap,

String attrName, String attrValue){

attrMap.put(attrName, attrValue);

return attrMap;

}

static String getCongratulatoryMessage(

Response resp, Customer customer){

if (resp.isEligible()) {

return “Congratulations ” +  customer.getName()

+ “!! You are promoted.”;

} else {

      return “Sorry ” + customer.getName()

+ “ Better luck next year”;

}

}

}

|  |  |
| --- | --- |
| DecisionObject decisionObjects | |
| Business Concept | Business Object |
| Customer | := decision.get(“c”); |
| Response | := decision.get(“resp”); |

|  |  |
| --- | --- |
| Decision DetermineCustomerPromotionEligibility | |
| Decisions | Execute Decision Tables |
| Define Promotion Eligibility | DefinePromotionStatus |
| Define Special Recommendation | DefineTopLevelRecommendation |
| Define Result | DefineResult |
| Define Decision Output | := decision.setOutput(${Congratulatory Message}); |

**Decision Tables**

|  |  |
| --- | --- |
| DecisionTable DefinePromotionStatus | |
| Conclusion | |
| Eligible for Promotion | |
| Is | ::=Utils.isEligibleForPromotion(customer.getJobAttrs()) |

|  |  |  |
| --- | --- | --- |
| DecisionTable DefineTopLevelRecommendation | | |
| Condition | | Conclusion |
| Name | | Job Attributes |
| ‘==’ | “RJ Drobick” | ::=Utils.addJobAttribute(customer.getJobAttrs(), “isSpecialRecommendation”, “true”) |
|  |  |  |

|  |  |
| --- | --- |
| DecisionTable DefineResult | |
| Conclusion | |
| Congratulatory Message | |
| Is | ::=Utils. getCongratulatoryMessage(response, customer) |

|  |  |  |
| --- | --- | --- |
| Glossary | | |
| Variable | Business Concept | Attribute |
| Name | Customer | Name |
| Id | Id |
| Department | Dept |
| Job Attributes | jobAttrs |
| Eligible for Promotion | Response | isEligible |
| Congratulatory Message | Result |