**Cloud Computing for Data Analysis**

**VIDEO CASE 08: Action Rules**

**Video Case Questions:**

What are differences between Classification Rules and Action Rules?   
**Answer:  
  
Classification rules:**   
A classification rule is a method which predicts the classes of each of the elements of a population set, assuming the population is given. In other words, given a population whose members each belong to one of a number of different sets or classes, a classification rule or classifier is a procedure by which the elements of the population set are each predicted to belong to one of the classes.

**Action rules:**   
Action rules represent actionable patterns in the data. They produce actions to undertake to achieve desired action/outcome. An action rule is a rule extracted from a decision system that describes a possible transition of objects from one state to another with respect to a distinguished attribute called a decision attribute.

1. How the attribute set in a dataset should be divided for Action Rules?  
   **Answer:**

**🡪Stable Attributes**: These values can’t form an action.

**🡪Flexible Attributes**: Values of flexible attributes can be altered. The values of these attributes are used to form an action.

**🡪Decision Attribute:** These contain the decisive values.

1. In what other application action rules can be applied?  
   **Answer:**
2. Medical Diagnosis
3. Fraud Detection in Credit Card Transactions
4. Bio-Medical Literature
5. Customer Relationship Management (CRM)
6. Literature
7. Protein Sequences
8. Online Security System
9. Census Data