1. Crops(?p) ^ hasType(?p, “wheat”) ^ growingstage(?c,”germination”) -> recommendFertilizer (?p,”nitrogen”)
2. Crops(?p) ^ hasType(?p, “wheat”) ^ growingstage(?c,”Reproductive”) **∨** growingstage(?c,”Vegetative”) -> recommendFertilizer (?p,” phosphorus”)
3. Crops(?p) ^ hasType(?p, “wheat”) ^ growingstage(?c,”maturation”) -> recommendFertilizer (?p,”Balanced Fertilizer”)
4. Crops(?p) ^ hasType(?p, “cotton”) ^ growingstage(?c,” germination”)-> recommendFertilizer (?p,”phosphorus)
5. Crops(?p) ^ hasType(?p, “cotton”) ^ growingstage(?c,” Reproductive”)-> recommendFertilizer (?p,”phosphorus)
6. Crops(?p) ^ hasType(?p, “cotton”) ^ growingstage(?c,”maturation”) **∨** growingstage(?c,”Vegetative”) -> recommendFertilizer (?p,” nitrogen”)
7. Crops(?p) ^ hasType(?p, “sugarcane”) ^ growingstage(?c,” germination”) -> recommendFertilizer(?p, “Potassium”)
8. Crops(?p) ^ hasType(?p, “sugarcane”) ^ growingstage(?c,” Vegetative”) **∨** growingstage(?c,” Reproductive”)-> recommendFertilizer(?p, “phosphorus”)
9. Crops(?p) ^ hasType(?p, “rice”) ^ growingstage(?c,” germination”) -> recommendFertilizer (?p,” phosphorus”)
10. Crops(?p) ^ hasType(?p, “rice”) ^ growingstage(?c,” Reproductive”) **∨** growingstage(?c,” maturation”) -> recommendFertilizer (?p,” nitrogen”)
11. Crops(?p) ^ hasType(?p, “sugarcane”) ^ growingstage(?c,”germination”) ^ typeOfSoil(?s,”silt”) ^ level(?s,”nitrogen”,”low”)-> recommendFertilizer (?p, “nitrogen”)
12. Crops(?p) ^ hasType(?p, “sugarcane”) ^ growingstage(?c,”reproductive”) ^ typeOfSoil(?s,”sandy”) ^ level(?s,”nitrogen”,”low”)-> recommendFertilizer (?p, “nitrogen”)
13. Crops(?p) ^ hasType(?p, “sugarcane”) ^ growingstage(?c,”reproductive”) ^ typeOfSoil(?s,”loam”) ^ level(?s,”potassium”,”low”)-> recommendFertilizer (?p, “potassium”)
14. Crops(?p) ^ hasType(?p,”cotton”) ^ growingstage(?c,”maturation”) ^ typeOfSoil(?s,”loam”) ^ level(?s,” phosphorus”,”low”)-> recommendFertilizer (?p, “phosphorus”)
15. Crops(?p) ^ hasType(?p,”cotton”) ^ growingstage(?c,”reproductive”) ^ typeOfSoil(?s,”peat”) ^ level(?s,” nitrogen”,”low”)-> recommendFertilizer (?p, “nitrogen”)
16. Crops(?p) ^ hasType(?p, “wheat”) ^ growingstage(?c,”germination”) ^ typeOfSoil(?s,”silt”) ^ level(?s,”phosphorus”,”low”)-> recommendFertilizer (?p, “phosphorus”)
17. Crops(?p) ^ hasType(?p, “wheat”) ^ growingstage(?c,”reproductive”) ^ typeOfSoil(?s,”loam”) ^ level(?s,”nitrogen”,”low”)-> recommendFertilizer (?p, “nitrogen”)
18. Crops(?p) ^ hasType(?p,”rice”) ^ growingstage(?c,”germination”) ^ typeOfSoil(?s,”peat”) ^ level(?s,” phosphorus”,”low”)-> recommendFertilizer (?p, “phosphorus”)
19. Crops(?p) ^ hasType(?p,”rice”) ^ growingstage(?c,”maturation”) ^ typeOfSoil(?s,”sandy”) ^ level(?s,” nitrogen”,”low”)-> recommendFertilizer (?p, “nitrogen”)
20. Crops(?p) ^ hasType(?p,”wheat”) ^ growingstage(?c,”germination”) ^ typeOfSoil(?s,”peat”) ^ requiremement(?stage,”nitrogen”,”high”) ^ level(?s,”nitrogen”,”low”)-> recommendFertilizer (?p, “nitrogen”)
21. Crops(?p) ^ hasType(?p,”wheat”) ^ growingstage(?c,”reproductive”) ^ typeOfSoil(?s,”silt”) ^ requiremement(?stage,”phosphorus”,”high”) ^ level(?s,” phosphorus”,”low”)-> recommendFertilizer (?p, “phosphorus”)
22. Crops(?p) ^ hasType(?p,”wheat”) ^ growingstage(?c,”reproductive”) ^ typeOfSoil(?s,”reproductive”) ^ requiremement(?stage,”potassium”,”high”) ^ level(?s,” potassium”,”low”)-> recommendFertilizer (?p, “potassium”)
23. Crops(?p) ^ hasType(?p,”wheat”) ^ growingstage(?c,”reproductive”) ^ typeOfSoil(?s,”silt”) ^ requiremement(?stage,”potassium”,”high”) ^ level(?s,” potassium”,”low”)-> recommendFertilizer (?p, “potassium”)
24. Crops(?p) ^ hasType(?p,”cotton”) ^ growingstage(?c,”maturation”) ^ typeOfSoil(?s,”sandy”) ^ requiremement(?stage,”phosphorus”,”high”) ^ level(?s,” phosphorus”,”low”)-> recommendFertilizer (?p, “phosphorus”)
25. Crops(?p) ^ hasType(?p,”cotton”) ^ growingstage(?c,”germination”) ^ typeOfSoil(?s,”sandy”) ^ requiremement(?stage,”nitrogen”,”high”) ^ level(?s,”nitrogen”,”low”)-> recommendFertilizer (?p, “nitrogen”)
26. Crops(?p) ^ hasType(?p,”rice”) ^ growingstage(?c,”reproductive”) ^ typeOfSoil(?s,”silt”) ^ requiremement(?stage,”nitrogen”,”high”) ^ level(?s,”nitrogen”,”low”)-> recommendFertilizer (?p, “nitrogen”)
27. Crops(?p) ^ hasType(?p,”rice”) ^ growingstage(?c,” reproductive”) ^ typeOfSoil(?s,”loam”) ^ requiremement(?stage,”phosphorus”,”high”) ^ level(?s,” phosphorus”,”low”)-> recommendFertilizer (?p, “phosphorus”)
28. Crops(?p) ^ hasType(?p,”sugarcane”) ^ growingstage(?c,”Reproductive”) ^ typeOfSoil(?s,”loam”) ^ requiremement(?stage,” phosphorus”,”high”) ^ level(?s,” phosphorus”,”low”)-> recommendFertilizer (?p, “phosphorus”)
29. Crops(?p) ^ hasType(?p,” sugarcane”) ^ growingstage(?c,”maturation”) ^ typeOfSoil(?s,”sandy”) ^ requiremement(?stage,”phosphorus”,”high”) ^ level(?s,” phosphorus”,”low”)-> recommendFertilizer (?p, “phosphorus”)
30. Crops(?p) ^ hasType(?p,” sugarcane”) ^ growingstage(?c,”vegetative”) ^ typeOfSoil(?s,”sandy”) ^ requiremement(?stage,”potassium”,”high”) ^ level(?s,” potassium”,”low”)-> recommendFertilizer (?p, “potassium”)
31. Crops(?p) ^ hasType(?p,”cotton”) ^ hasDiseaseName(?p, “jassid”) ^ hasTreatment(?d, “chemical”) -> recommendPesticide(?p, “Movento”)
32. Crops(?p) ^ hasType(?p,”cotton”) ^ hasDiseaseName(?p, “white fly”) ^ hasTreatment(?d, “chemical”) -> recommendPesticide(?p, “Movento”)
33. Crops(?p) ^ hasType(?p,”cotton”) ^ hasDiseaseName(?p, “Thrips”) ^ hasTreatment(?d, “chemical”) -> recommendPesticide(?p, “Movento”)
34. Crops(?p) ^ hasType(?p,”cotton”) ^ hasDiseaseName(?p, “Aphid”) ^ hasTreatment(?d, “chemical”) -> recommendPesticide(?p, “Confidor”)
35. Crops(?p) ^ hasType(?p,”cotton”) ^ hasDiseaseName(?p, “Red Bug”) ^ hasTreatment(?d, “Cultural”) -> recommendPesticide(?p, “Remove Host plants like Okra”)
36. Crops(?p) ^ hasType(?p,”cotton”) ^ hasDiseaseName(?p, “bollworm”) ^ hasTreatment(?d, “Chemical”) -> recommendPesticide(?p, “Belt Chemical”)
37. Crops(?p) ^ hasType(?p,”cotton”) ^ hasDiseaseName(?p, “Aphid”) ^ hasTreatment(?d, “chemical”)^ Growthstage(?gs, "Germination") -> recommendPesticide(?p, “Confidor”)
38. Crops(?p) ^ hasType(?p,”cotton”) ^ hasDiseaseName(?p, “jessid”) ^ hasTreatment(?d, “chemical”)^ Growthstage(?gs, "Reproductive") -> recommendPesticide(?p, “Confidor”)
39. Crops(?p) ^ hasType(?p,”sugarcane”) ^ hasDiseaseName(?p, “Termite”) ^ hasTreatment(?d, “chemical”)^ Growthstage(?gs, "Reproductive") -> recommendPesticide(?p, “Chlorpyrifos ethyl”)
40. Crops(?p) ^ hasType(?p,”sugarcane”) ^ hasDiseaseName(?p, “leafhopper”) ^ hasTreatment(?d, “chemical”)-> recommendPesticide(?p, “Deltamethrin”)
41. Crops(?p) ^ hasType(?p,”sugarcane”) ^ hasDiseaseName(?p, “stem borer”) ^ hasTreatment(?d, “chemical”)-> recommendPesticide(?p, “Cartap”)
42. Crops(?p) ^ hasType(?p,”Rice”) ^ hasDiseaseName(?p, “Mottle Virus”) ^ hasTreatment(?d, “Cultural”)-> recommendPesticide(?p, “Remove Plants”)
43. Crops(?p) ^ hasType(?p,”Rice”) ^ hasDiseaseName(?p, “Brown Spot”) ^ hasTreatment(?d, “Chemical”)-> recommendPesticide(?p, “Captan”)
44. Crops(?p) ^ hasType(?p,”Rice”) ^ hasDiseaseName(?p, “Grain discolouration”) ^ hasTreatment(?d, “Chemical”)-> recommendPesticide(?p, “carbendazim”)
45. Crops(?p) ^ hasType(?p,”Wheat”) ^ hasPest(?pe, "leaf blotch") -> recommendPesticide(?p,"fungicides")
46. Crops(?p) ^ hasType(?p,”wheat”) ^ hasPest(?pe, "loose smut") -> recommendPesticide(?p,"fungicides seed treatment")
47. Crops(?p) ^ hasType(?p,”wheat”) ^ hasPest(?pe, "Bacterial Streak") -> recommendPesticide(?p,"Use balance amount of Nitrogen")
48. Crops(?p) ^ hasType(?p,”wheat”) ^ hasPest(?pe," herbs") -> recommendPesticide(?p,"herbicides")
49. (temperature(?temp) value "70"^^xsd:double) ^ (temperature(?temp) value "85"^^xsd:double) -> (recommendCrop(?temp, wheat))
50. LandArea(?a) ^ increaseDemand LastFiveYears (?demand,"true")^ (averagePriceperAcre(?price,”good”) ^ (temperature(?temp) value "70"^^xsd:double))^ currentDemand(?demand,”high”) ^ pestResistant(?pest,”high”) ^ typeOfSoil(?s,”clay”) ^ wateravailabilty(?w,”high”) ^ requiredWater(?w,”high”)-> (recommendCrop (“Rice”))
51. LandArea(?a) ^ increaseDemand LastFiveYears (?demand,"true")^ (averagePriceperAcre(?price,”good”) ^ (temperature(?temp) value "70"^^xsd:double))^ currentDemand(?demand,”high”) ^ pestResistant(?pest,”high”) ^ typeOfSoil(?s,”loamy”) ^ wateravailabilty(?w,”low”) ^ requiredWater(?w,”high”)-> (recommendCrop (“wheat”))
52. LandArea(?a) ^ increaseDemand LastFiveYears (?demand,"true")^ (averagePriceperAcre(?price,”good”) ^ (temperature(?temp) value "70"^^xsd:double))^ currentDemand(?demand,”high”) ^ pestResistant(?pest,”high”) ^ typeOfSoil(?s,”clay”) ^ wateravailabilty(?w,”low”) ^ requiredWater(?w,”low”)-> (recommendCrop (“wheat”)
53. LandArea(?a) ^ increaseDemand LastFiveYears (?demand,"true")^ (averagePriceperAcre(?price,”good”) ^ (temperature(?temp) value "70"^^xsd:double))^ currentDemand(?demand,”high”) ^ pestResistant(?pest,”low”) ^ typeOfSoil(?s,”loamy”) ^ wateravailabilty(?w,”low”) ^ requiredWater(?w,”low”)-> (recommendCrop (“wheat”)
54. LandArea(?a) ^ increaseDemand LastFiveYears (?demand,"true")^ (averagePriceperAcre(?price,”good”) ^ (temperature(?temp) value "80"^^xsd:double))^ currentDemand(?demand,”low”) ^ pestResistant(?pest,”high”) ^ typeOfSoil(?s,”loamy”) ^ wateravailabilty(?w,”high”) ^ requiredWater(?w,”high”)-> (recommendCrop (“sugarcane”)
55. Field(?f) ^ hasWaterAvailability(?f, "high") -> shouldPlantCrop(?f, "rice" or "sugarcane")
56. Field(?f) ^ hasWaterAvailability(?f, "moderate") -> shouldPlantCrop(?f, "wheat")
57. Field(?f) ^ hasWaterAvailability(?f, "low") -> shouldPlantCrop(?f,"cotton")
58. Field(?f) ^ hasIrrigationLevel(?f, "high") -> shouldPlantCrop(?f, "rice" or "sugarcane”)
59. Field(?f) ^ hasFertilityLevel(?f, "moderate") ^ hasModerateWeather(?f) -> shouldPlantCrop(?f, "wheat" )
60. Field(?f) ^ (hasFertilityLevel(?f, "low") v hasHarshWeather(?f)) -> shouldPlantCrop(?f,"cotton")
61. Market(?m) ^ hasDemand(?m, ?crop) ^ Crop(?crop) ^ hasFavorableWeather(?f) -> shouldPlantCrop(?f, ?crop)
62. Market(?m) ^ hasPrice(?m, ?crop, ?price) ^ Crop(?crop) ^ hasFertilityLevel(?f, "high") ^ hasFavorableWeather(?f) -> shouldPlantCrop(?f, ?crop)
63. Market(?m) ^ HighDemandInFuture(?m, ?crop) ^ Crop(?crop) ^ hasFertilityLevel(?f, "high") ^ hasModerateWeather(?f) -> shouldPlantCrop(?f, ?crop)
64. Region(?r) ^ specializesIn(?r, ?crop) ^ Crop(?crop) ^ hasIrrigationLevel(?f, "high") -> shouldPlantCrop(?f, ?crop)