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Q.1 Apply navice bayes algorithm and predict the class for unseen sample.
(chills = Yes, runny nose = No, headache = mild, fever = Yes).
> NBdataset<-read.table("fever.csv",header = TRUE,sep = ",")
> classifier<-naiveBayes(NBdataset[,1:4],NBdataset[,5])</pre>
> table(predict(classifier, NBdataset[,5]), NBdataset[,5],
                  dnn= list('predicted', 'actual'))
           actual
predicted No Yes
           5
                 5
       No
                 0
       Yes 0
> classifier<-naiveBayes(NBdataset[,1:4],NBdataset[,5])</pre>
> table(predict(classifier, NBdataset[,5]), NBdataset[,5],
                  dnn= list('predicted', 'actual'))
           actual
predicted No Yes
           5
       No
       Yes 0
                 0
> classifier$tables
$Chills
                Chills
NBdataset[, 5] No Yes
             No 0.4 0.6
             Yes 0.6 0.4
$Runny_nose
                Runny_nose
NBdataset[, 5] No Yes
             No 0.8 0.2
             Yes 0.4 0.6
$Headache
                Headache
NBdataset[, 5] mild No strong
                  0.2 0.4
                              0.4
             No
             Yes 0.4 0.2
                              0.4
$Fever
                Fever
NBdataset[, 5] No Yes
             No 0.4 0.6
             Yes 0.4 0.6
> NBdataset[15,-5] <- as.factor(c(Chills="Yes",Runny_Nose="No",Headache="mild",Fever="Yes"))
> print(NBdataset[15,-5])
  Chills Runny_nose Headache Fever
                     mild
               No
> result<-predict(classifier,NBdataset[15,-5])</pre>
> print(result)
[1] No
Levels: No Yes
```