When your assignment is complete, please answer the questions in this text file and upload it to I-Learn.

1. Please list the 5 rules you found with the highest support.

lhs rhs support confidence lift count

[1] {} => {whole milk} 0.256 0.26 1.0 2513

[2] {} => {other vegetables} 0.193 0.19 1.0 1903

[3] {} => {rolls/buns} 0.184 0.18 1.0 1809

[4] {} => {soda} 0.174 0.17 1.0 1715

[5] {other vegetables} => {whole milk} 0.075 0.39 1.5 736

2. Please list the 5 rules you found with the highest confidence.

lhs rhs support confidence lift count

[1] {} => {whole milk} 0.26 0.26 1 2513

[2] {} => {other vegetables} 0.19 0.19 1 1903

[3] {} => {rolls/buns} 0.18 0.18 1 1809

[4] {} => {soda} 0.17 0.17 1 1715

[5] {} => {yogurt} 0.14 0.14 1 1372

3. Please list the 5 rules you found with the highest lift.

lhs rhs support confidence

[1] {bottled beer,red/blush wine} => {liquor} 0.0019 0.40

[2] {hamburger meat,soda} => {Instant food products} 0.0012 0.21

[3] {ham,white bread} => {processed cheese} 0.0019 0.38

[4] {root vegetables,other vegetables,whole milk,yogurt} => {rice} 0.0013 0.17

[5] {bottled beer,liquor} => {red/blush wine} 0.0019 0.41

lift count

[1] 36 19

[2] 26 12

[3] 23 19

[4] 22 13

[5] 21 19

4. Please list the 5 rules you found that you think are the most interesting.

It was interesting to look at only whole milk

lhs rhs support confidence lift count

[1] {whole milk} => {root vegetables} 0.049 0.19 1.8 481

[2] {whole milk} => {tropical fruit} 0.042 0.17 1.6 416

[3] {whole milk} => {yogurt} 0.056 0.22 1.6 551

[4] {whole milk} => {other vegetables} 0.075 0.29 1.5 736

[5] {whole milk} => {rolls/buns} 0.057 0.22 1.2 557

5. Please describe anything else you did for this assignment.

* I used the arulesViz library to give a visualization of the rules, it turned out pretty good.

6. Please select the category you feel best describes your assignment:

A - Some attempt was made

B - Developing, but significantly deficient

C - Slightly deficient, but still mostly adequate

D - Meets requirements

E - Shows creativity and excels above and beyond requirements

7. Provide a brief justification (1-2 sentences) for selecting that category.

* I used association rule mining in R to find patterns in data.