Freshwater Fish Consumption of Child Population in Rambewa Divisional Secretariat

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# Required Packages

library(tidyverse)

## ── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──  
## ✔ dplyr 1.1.2 ✔ readr 2.1.4  
## ✔ forcats 1.0.0 ✔ stringr 1.5.0  
## ✔ ggplot2 3.4.2 ✔ tibble 3.2.1  
## ✔ lubridate 1.9.2 ✔ tidyr 1.3.0  
## ✔ purrr 1.0.1   
## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()  
## ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(tinytex)  
library(janitor)

##   
## Attaching package: 'janitor'  
##   
## The following objects are masked from 'package:stats':  
##   
## chisq.test, fisher.test

# Import the data set

fish\_consumption <- read.csv("../data/data.csv")  
head(fish\_consumption)

## X1..Grama.Niladhari.Division X2..Gender X3..Age.of.the.child..Years.  
## 1 rambewa female 10  
## 2 pandukabhayapura male 5  
## 3 rambewa male 8  
## 4 diviya udabendawewa male 5  
## 5 sadamalgama male 4  
## 6 sadamalgama female 7  
## X4..Weight.of.the.child..kg..  
## 1 28  
## 2 21.4  
## 3 35  
## 4 18  
## 5 6.5  
## 6 21  
## X5..How.would.you.rate.your.child.s.Overall.Academic.performances.....  
## 1 Very Good  
## 2 Fair  
## 3 Excellent  
## 4 Good  
## 5 Good  
## 6 Fair  
## X6..Number.of.people.who.live.in.your.household  
## 1 5  
## 2 4  
## 3 4  
## 4 7  
## 5 7  
## 6 5  
## X7..What.animal.protein.sources.do.you.give.your.child.the.most.  
## 1 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 2 Meat (Chicken,Beef, Pork, etc.), Eggs  
## 3 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 4 Dairy Products  
## 5 Dairy Products  
## 6 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## X8..Is.seafood.available.frequently.in.your.area.  
## 1 No  
## 2 Yes  
## 3 No  
## 4 Maybe  
## 5 Yes  
## 6 Maybe  
## X9..Does.your.child.eat.freshwater.fish.  
## 1 Yes  
## 2 Yes  
## 3 Yes  
## 4 No  
## 5 Yes  
## 6 Yes  
## X9...A..If.Yes..mention.the.most.preferred.freshwater.fish.type.of.the.child.  
## 1 Tilapia  
## 2 Not mentioned  
## 3 Loolla  
## 4 Not mentioned  
## 5 Tilapia   
## 6 Tilapia   
## X9...B..If.no..what.is.the.reason.  
## 1   
## 2   
## 3   
## 4 Dislike of the taste or texture  
## 5   
## 6   
## X9...C..If.your.child.hesitates.to.eat.freshwater.fish..what.are.the.methods.you.used.to.encourage.improve.their.consumption.usually.  
## 1 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 2   
## 3 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 4 Serve with their favorite foods  
## 5 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 6   
## X10..Why.does.your.child.prefer.freshwater.fish.  
## 1 Awareness of nutritional quality  
## 2 As a food habit  
## 3 Milder taste  
## 4   
## 5 As a food habit  
## 6 Milder taste, As a food habit  
## X11..What.is.the.reason.for.including.freshwater.fish.in.your.child.s.diet.  
## 1 Nutritional benefits, Health benefits, Freshness, Readily available  
## 2 Nutritional benefits, Taste  
## 3 Nutritional benefits  
## 4   
## 5 Nutritional benefits  
## 6 Nutritional benefits, Health benefits  
## X12..Has.the.amount.of.freshwater.fish.your.family..consumed.changed.over.the.last.3.years.  
## 1 No change  
## 2 Decreased  
## 3 No change  
## 4 Not mentioned  
## 5 Decreased  
## 6 Decreased  
## X13..If.changed..what.is.the.reason.  
## 1   
## 2 High consumption of other animal sources  
## 3   
## 4   
## 5 Expensive   
## 6 Inflation   
## X14..Have.you.ever.received.any.guidance.or.recommendation.from.a.healthcare.professional.regarding.freshwater.fish.consumption.of.your.child.  
## 1 No  
## 2 No  
## 3 No  
## 4 Not mentioned  
## 5 No  
## 6 No  
## X15..Have.you.ever.limited.your.child.s.freshwater.fish.consumption.due.to.any.reason.  
## 1 No  
## 2 No  
## 3 No  
## 4   
## 5 Maybe  
## 6 No  
## X16..If.Yes..what.is.the.reason.  
## 1   
## 2   
## 3   
## 4   
## 5 Due to some health conditions of the children  
## 6   
## X17...Freshwater.fish.is.a.healthy.source.of.animal.protein.and.provide.other.important.nutrients.for.children..  
## 1 Strongly agree  
## 2 Agree  
## 3 Agree  
## 4   
## 5 Agree  
## 6 Agree  
## X18..How.often.does.your.child.eat.freshwater.fish.  
## 1 Twice a week  
## 2 Every few months  
## 3 3-4 times a week  
## 4   
## 5 Once a week  
## 6 Twice a week  
## X19..When.the.child.eats.freshwater.fish..what.is.the.average.amount.per.day.  
## 1 Two meals  
## 2 Two meals  
## 3 Two meals  
## 4   
## 5 One meal  
## 6 Two meals  
## X20..How.many.pieces.the.child.eats.per.meal.  
## 1 2  
## 2 2  
## 3 2  
## 4   
## 5 2  
## 6 2  
## X21.What.is.your.child.s.favorite.way.of.preparing.freshwater.fish.  
## 1 Fried fish  
## 2 Curry (With coconut milk), Fried fish  
## 3 Curry (With coconut milk)  
## 4   
## 5 Fish cutlet, Patties, Sandwiches  
## 6 Curry (With coconut milk), Fried fish, Fish cutlet/patties/sandwiches  
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Tilapia.  
## 1 Less than 2 kg  
## 2 Less than 2 kg  
## 3 Less than 2 kg  
## 4   
## 5 More than 6 kg  
## 6 Less than 2 kg  
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Korali.  
## 1   
## 2   
## 3 No purchasing  
## 4   
## 5   
## 6 Less than 2 kg  
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Hunga.  
## 1   
## 2   
## 3 No purchasing  
## 4   
## 5   
## 6   
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Loolla.  
## 1   
## 2   
## 3 Less than 2 kg  
## 4   
## 5   
## 6 Less than 2 kg  
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Pethiya.  
## 1   
## 2   
## 3 No purchasing  
## 4   
## 5   
## 6   
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Aandha.  
## 1   
## 2   
## 3 No purchasing  
## 4   
## 5   
## 6   
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Kawayya.  
## 1   
## 2   
## 3 No purchasing  
## 4   
## 5   
## 6   
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Ankutta.  
## 1   
## 2   
## 3 No purchasing  
## 4   
## 5   
## 6   
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Magura.  
## 1   
## 2   
## 3 No purchasing  
## 4   
## 5   
## 6   
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Karadu.issa.  
## 1   
## 2   
## 3 No purchasing  
## 4   
## 5   
## 6   
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Carp.Spp..  
## 1   
## 2   
## 3 No purchasing  
## 4   
## 5   
## 6   
## X22.What.type.of.freshwater.fish.usually.purchase.in.your.household.and.how.much.per.month...Other.  
## 1   
## 2   
## 3 No purchasing  
## 4   
## 5   
## 6   
## X22...b..If.you.consume.fish.other.than.the.above.mentioned.species..please.mention.it.here.  
## 1   
## 2   
## 3   
## 4   
## 5   
## 6   
## X23.What.are.the.most.frequently.purchasing.processed.freshwater.fish.products.in.your.household.per.month...Dried.fish.  
## 1 Less than 0.5 kg  
## 2   
## 3 0.5 - 1 kg  
## 4   
## 5 More than 2 kg  
## 6 Less than 0.5 kg  
## X23.What.are.the.most.frequently.purchasing.processed.freshwater.fish.products.in.your.household.per.month...Smoked.fish.  
## 1 Less than 0.5 kg  
## 2   
## 3 0.5 - 1 kg  
## 4   
## 5   
## 6 Less than 0.5 kg  
## X23.What.are.the.most.frequently.purchasing.processed.freshwater.fish.products.in.your.household.per.month...Other.  
## 1   
## 2   
## 3   
## 4   
## 5   
## 6   
## X23...b..If.you.consume.fish.product.other.than.the.above.mentioned.processed.product..please.mention.it.here.  
## 1   
## 2   
## 3   
## 4   
## 5   
## 6   
## X24..What.are.the.barriers.to.increasing.freshwater.fish.consumption.  
## 1 Expensive  
## 2 Fewer places to purchase, Expensive, Fish yield is low,   
## 3 Expensive  
## 4   
## 5 Expensive  
## 6 Expensive  
## X25..Where.do.you.usually.get.the.fish.from.  
## 1 Fish stall, Fair  
## 2 Fish stall  
## 3 Fish stall  
## 4   
## 5 Delivery vehicles  
## 6 Fish stall, Directly from fishermen  
## X26..Have.you.noticed.any.allergies.symptoms.of.your.child.after.eating.Freshwater.fish.  
## 1 No  
## 2 No  
## 3 No  
## 4   
## 5 No  
## 6 No  
## X27..If.Yes..please.mention.the.fish.species.s  
## 1   
## 2   
## 3   
## 4   
## 5   
## 6   
## X28..If.Yes..which.symptoms.have.you.observed...You.can.select.more.than.one.option.  
## 1   
## 2   
## 3   
## 4   
## 5   
## 6

# Data Reprocessing

fish\_consumption<- clean\_names(dat = fish\_consumption, case = "snake")   
glimpse(fish\_consumption)

## Rows: 384  
## Columns: 46  
## $ x1\_grama\_niladhari\_division <chr> …  
## $ x2\_gender <chr> …  
## $ x3\_age\_of\_the\_child\_years <dbl> …  
## $ x4\_weight\_of\_the\_child\_kg <chr> …  
## $ x5\_how\_would\_you\_rate\_your\_child\_s\_overall\_academic\_performances <chr> …  
## $ x6\_number\_of\_people\_who\_live\_in\_your\_household <chr> …  
## $ x7\_what\_animal\_protein\_sources\_do\_you\_give\_your\_child\_the\_most <chr> …  
## $ x8\_is\_seafood\_available\_frequently\_in\_your\_area <chr> …  
## $ x9\_does\_your\_child\_eat\_freshwater\_fish <chr> …  
## $ x9\_a\_if\_yes\_mention\_the\_most\_preferred\_freshwater\_fish\_type\_of\_the\_child <chr> …  
## $ x9\_b\_if\_no\_what\_is\_the\_reason <chr> …  
## $ x9\_c\_if\_your\_child\_hesitates\_to\_eat\_freshwater\_fish\_what\_are\_the\_methods\_you\_used\_to\_encourage\_improve\_their\_consumption\_usually <chr> …  
## $ x10\_why\_does\_your\_child\_prefer\_freshwater\_fish <chr> …  
## $ x11\_what\_is\_the\_reason\_for\_including\_freshwater\_fish\_in\_your\_child\_s\_diet <chr> …  
## $ x12\_has\_the\_amount\_of\_freshwater\_fish\_your\_family\_consumed\_changed\_over\_the\_last\_3\_years <chr> …  
## $ x13\_if\_changed\_what\_is\_the\_reason <chr> …  
## $ x14\_have\_you\_ever\_received\_any\_guidance\_or\_recommendation\_from\_a\_healthcare\_professional\_regarding\_freshwater\_fish\_consumption\_of\_your\_child <chr> …  
## $ x15\_have\_you\_ever\_limited\_your\_child\_s\_freshwater\_fish\_consumption\_due\_to\_any\_reason <chr> …  
## $ x16\_if\_yes\_what\_is\_the\_reason <chr> …  
## $ x17\_freshwater\_fish\_is\_a\_healthy\_source\_of\_animal\_protein\_and\_provide\_other\_important\_nutrients\_for\_children <chr> …  
## $ x18\_how\_often\_does\_your\_child\_eat\_freshwater\_fish <chr> …  
## $ x19\_when\_the\_child\_eats\_freshwater\_fish\_what\_is\_the\_average\_amount\_per\_day <chr> …  
## $ x20\_how\_many\_pieces\_the\_child\_eats\_per\_meal <chr> …  
## $ x21\_what\_is\_your\_child\_s\_favorite\_way\_of\_preparing\_freshwater\_fish <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_tilapia <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_korali <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_hunga <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_loolla <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_pethiya <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_aandha <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_kawayya <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_ankutta <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_magura <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_karadu\_issa <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_carp\_spp <chr> …  
## $ x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_other <chr> …  
## $ x22\_b\_if\_you\_consume\_fish\_other\_than\_the\_above\_mentioned\_species\_please\_mention\_it\_here <chr> …  
## $ x23\_what\_are\_the\_most\_frequently\_purchasing\_processed\_freshwater\_fish\_products\_in\_your\_household\_per\_month\_dried\_fish <chr> …  
## $ x23\_what\_are\_the\_most\_frequently\_purchasing\_processed\_freshwater\_fish\_products\_in\_your\_household\_per\_month\_smoked\_fish <chr> …  
## $ x23\_what\_are\_the\_most\_frequently\_purchasing\_processed\_freshwater\_fish\_products\_in\_your\_household\_per\_month\_other <chr> …  
## $ x23\_b\_if\_you\_consume\_fish\_product\_other\_than\_the\_above\_mentioned\_processed\_product\_please\_mention\_it\_here <chr> …  
## $ x24\_what\_are\_the\_barriers\_to\_increasing\_freshwater\_fish\_consumption <chr> …  
## $ x25\_where\_do\_you\_usually\_get\_the\_fish\_from <chr> …  
## $ x26\_have\_you\_noticed\_any\_allergies\_symptoms\_of\_your\_child\_after\_eating\_freshwater\_fish <chr> …  
## $ x27\_if\_yes\_please\_mention\_the\_fish\_species\_s <chr> …  
## $ x28\_if\_yes\_which\_symptoms\_have\_you\_observed\_you\_can\_select\_more\_than\_one\_option <chr> …

##Look at the variable names in the original dataset  
  
names(fish\_consumption)

## [1] "x1\_grama\_niladhari\_division"   
## [2] "x2\_gender"   
## [3] "x3\_age\_of\_the\_child\_years"   
## [4] "x4\_weight\_of\_the\_child\_kg"   
## [5] "x5\_how\_would\_you\_rate\_your\_child\_s\_overall\_academic\_performances"   
## [6] "x6\_number\_of\_people\_who\_live\_in\_your\_household"   
## [7] "x7\_what\_animal\_protein\_sources\_do\_you\_give\_your\_child\_the\_most"   
## [8] "x8\_is\_seafood\_available\_frequently\_in\_your\_area"   
## [9] "x9\_does\_your\_child\_eat\_freshwater\_fish"   
## [10] "x9\_a\_if\_yes\_mention\_the\_most\_preferred\_freshwater\_fish\_type\_of\_the\_child"   
## [11] "x9\_b\_if\_no\_what\_is\_the\_reason"   
## [12] "x9\_c\_if\_your\_child\_hesitates\_to\_eat\_freshwater\_fish\_what\_are\_the\_methods\_you\_used\_to\_encourage\_improve\_their\_consumption\_usually"   
## [13] "x10\_why\_does\_your\_child\_prefer\_freshwater\_fish"   
## [14] "x11\_what\_is\_the\_reason\_for\_including\_freshwater\_fish\_in\_your\_child\_s\_diet"   
## [15] "x12\_has\_the\_amount\_of\_freshwater\_fish\_your\_family\_consumed\_changed\_over\_the\_last\_3\_years"   
## [16] "x13\_if\_changed\_what\_is\_the\_reason"   
## [17] "x14\_have\_you\_ever\_received\_any\_guidance\_or\_recommendation\_from\_a\_healthcare\_professional\_regarding\_freshwater\_fish\_consumption\_of\_your\_child"  
## [18] "x15\_have\_you\_ever\_limited\_your\_child\_s\_freshwater\_fish\_consumption\_due\_to\_any\_reason"   
## [19] "x16\_if\_yes\_what\_is\_the\_reason"   
## [20] "x17\_freshwater\_fish\_is\_a\_healthy\_source\_of\_animal\_protein\_and\_provide\_other\_important\_nutrients\_for\_children"   
## [21] "x18\_how\_often\_does\_your\_child\_eat\_freshwater\_fish"   
## [22] "x19\_when\_the\_child\_eats\_freshwater\_fish\_what\_is\_the\_average\_amount\_per\_day"   
## [23] "x20\_how\_many\_pieces\_the\_child\_eats\_per\_meal"   
## [24] "x21\_what\_is\_your\_child\_s\_favorite\_way\_of\_preparing\_freshwater\_fish"   
## [25] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_tilapia"   
## [26] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_korali"   
## [27] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_hunga"   
## [28] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_loolla"   
## [29] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_pethiya"   
## [30] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_aandha"   
## [31] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_kawayya"   
## [32] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_ankutta"   
## [33] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_magura"   
## [34] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_karadu\_issa"   
## [35] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_carp\_spp"   
## [36] "x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_other"   
## [37] "x22\_b\_if\_you\_consume\_fish\_other\_than\_the\_above\_mentioned\_species\_please\_mention\_it\_here"   
## [38] "x23\_what\_are\_the\_most\_frequently\_purchasing\_processed\_freshwater\_fish\_products\_in\_your\_household\_per\_month\_dried\_fish"   
## [39] "x23\_what\_are\_the\_most\_frequently\_purchasing\_processed\_freshwater\_fish\_products\_in\_your\_household\_per\_month\_smoked\_fish"   
## [40] "x23\_what\_are\_the\_most\_frequently\_purchasing\_processed\_freshwater\_fish\_products\_in\_your\_household\_per\_month\_other"   
## [41] "x23\_b\_if\_you\_consume\_fish\_product\_other\_than\_the\_above\_mentioned\_processed\_product\_please\_mention\_it\_here"   
## [42] "x24\_what\_are\_the\_barriers\_to\_increasing\_freshwater\_fish\_consumption"   
## [43] "x25\_where\_do\_you\_usually\_get\_the\_fish\_from"   
## [44] "x26\_have\_you\_noticed\_any\_allergies\_symptoms\_of\_your\_child\_after\_eating\_freshwater\_fish"   
## [45] "x27\_if\_yes\_please\_mention\_the\_fish\_species\_s"   
## [46] "x28\_if\_yes\_which\_symptoms\_have\_you\_observed\_you\_can\_select\_more\_than\_one\_option"

##Rename the dataset for further analysis  
  
fish\_consumption <- fish\_consumption %>%  
rename(Division = x1\_grama\_niladhari\_division,  
 Gender = x2\_gender,  
 Age = x3\_age\_of\_the\_child\_years,  
 Weight = x4\_weight\_of\_the\_child\_kg,  
 Academic\_performance = x5\_how\_would\_you\_rate\_your\_child\_s\_overall\_academic\_performances,  
 number\_of\_family\_members = x6\_number\_of\_people\_who\_live\_in\_your\_household,  
 animal\_protein = x7\_what\_animal\_protein\_sources\_do\_you\_give\_your\_child\_the\_most,  
 seafood\_availability = x8\_is\_seafood\_available\_frequently\_in\_your\_area,  
 eat\_freshwater\_fish = x9\_does\_your\_child\_eat\_freshwater\_fish,  
 fish\_type = x9\_a\_if\_yes\_mention\_the\_most\_preferred\_freshwater\_fish\_type\_of\_the\_child,  
 reason = x9\_b\_if\_no\_what\_is\_the\_reason,  
 improve\_consumption = x9\_c\_if\_your\_child\_hesitates\_to\_eat\_freshwater\_fish\_what\_are\_the\_methods\_you\_used\_to\_encourage\_improve\_their\_consumption\_usually,  
 reason\_to\_prefer = x10\_why\_does\_your\_child\_prefer\_freshwater\_fish,  
 reason\_to\_include = x11\_what\_is\_the\_reason\_for\_including\_freshwater\_fish\_in\_your\_child\_s\_diet,  
 consumption\_changing = x12\_has\_the\_amount\_of\_freshwater\_fish\_your\_family\_consumed\_changed\_over\_the\_last\_3\_years,  
 reason\_to\_change = x13\_if\_changed\_what\_is\_the\_reason,  
 healthcare\_guidance = x14\_have\_you\_ever\_received\_any\_guidance\_or\_recommendation\_from\_a\_healthcare\_professional\_regarding\_freshwater\_fish\_consumption\_of\_your\_child,  
 limit\_the\_consumption = x15\_have\_you\_ever\_limited\_your\_child\_s\_freshwater\_fish\_consumption\_due\_to\_any\_reason,  
 reason\_to\_limit\_change = x16\_if\_yes\_what\_is\_the\_reason,  
 freshwater\_fish\_nut = x17\_freshwater\_fish\_is\_a\_healthy\_source\_of\_animal\_protein\_and\_provide\_other\_important\_nutrients\_for\_children,  
 time\_range = x18\_how\_often\_does\_your\_child\_eat\_freshwater\_fish,  
 avg\_amount = x19\_when\_the\_child\_eats\_freshwater\_fish\_what\_is\_the\_average\_amount\_per\_day,  
 num\_of\_pieces = x20\_how\_many\_pieces\_the\_child\_eats\_per\_meal,  
 preparing\_way = x21\_what\_is\_your\_child\_s\_favorite\_way\_of\_preparing\_freshwater\_fish,  
 amount\_permonth\_Tilapia = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_tilapia,  
 amount\_permonth\_Korali = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_korali,  
 amount\_permonth\_Hunga = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_hunga,  
 amount\_permonth\_Loolla = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_loolla,  
 amount\_permonth\_Pethiya = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_pethiya,  
 amount\_permonth\_Aandha = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_aandha,  
 amount\_permonth\_Kawayya = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_kawayya,  
 amount\_permonth\_Ankutta = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_ankutta,  
 amount\_permonth\_Magura = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_magura,  
 amount\_permonth\_Kanradu.issa = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_karadu\_issa,  
 amount\_permonth\_Crap.spp = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_carp\_spp,  
 amount\_permonth\_Other = x22\_what\_type\_of\_freshwater\_fish\_usually\_purchase\_in\_your\_household\_and\_how\_much\_per\_month\_other,  
 other\_species = x22\_b\_if\_you\_consume\_fish\_other\_than\_the\_above\_mentioned\_species\_please\_mention\_it\_here,  
 processed\_dried\_fish = x23\_what\_are\_the\_most\_frequently\_purchasing\_processed\_freshwater\_fish\_products\_in\_your\_household\_per\_month\_dried\_fish,  
 processed\_smoked\_fish = x23\_what\_are\_the\_most\_frequently\_purchasing\_processed\_freshwater\_fish\_products\_in\_your\_household\_per\_month\_smoked\_fish,  
 processed\_other = x23\_what\_are\_the\_most\_frequently\_purchasing\_processed\_freshwater\_fish\_products\_in\_your\_household\_per\_month\_other,  
 other\_fish\_product = x23\_b\_if\_you\_consume\_fish\_product\_other\_than\_the\_above\_mentioned\_processed\_product\_please\_mention\_it\_here,  
 increasing\_barriers = x24\_what\_are\_the\_barriers\_to\_increasing\_freshwater\_fish\_consumption,  
 buying\_place = x25\_where\_do\_you\_usually\_get\_the\_fish\_from,  
 allergies = x26\_have\_you\_noticed\_any\_allergies\_symptoms\_of\_your\_child\_after\_eating\_freshwater\_fish,  
 allergy\_species = x27\_if\_yes\_please\_mention\_the\_fish\_species\_s,  
 symptoms = x28\_if\_yes\_which\_symptoms\_have\_you\_observed\_you\_can\_select\_more\_than\_one\_option)  
   
  
##Check the variable type of new dataset  
  
glimpse(fish\_consumption)

## Rows: 384  
## Columns: 46  
## $ Division <chr> "rambewa", "pandukabhayapura", "rambewa",…  
## $ Gender <chr> "female", "male", "male", "male", "male",…  
## $ Age <dbl> 10, 5, 8, 5, 4, 7, 10, 5, 9, 8, 7, 8, 8, …  
## $ Weight <chr> "28", "21.4", "35", "18", "6.5", "21", "2…  
## $ Academic\_performance <chr> "Very Good", "Fair", "Excellent", "Good",…  
## $ number\_of\_family\_members <chr> "5", "4", "4", "7", "7", "5", "5", "4", "…  
## $ animal\_protein <chr> "Meat (Chicken,Beef, Pork, etc.), Fish, E…  
## $ seafood\_availability <chr> "No", "Yes", "No", "Maybe", "Yes", "Maybe…  
## $ eat\_freshwater\_fish <chr> "Yes", "Yes", "Yes", "No", "Yes", "Yes", …  
## $ fish\_type <chr> "Tilapia", "Not mentioned", "Loolla", "No…  
## $ reason <chr> "", "", "", "Dislike of the taste or text…  
## $ improve\_consumption <chr> "Cook in different ways to make it more a…  
## $ reason\_to\_prefer <chr> "Awareness of nutritional quality", "As a…  
## $ reason\_to\_include <chr> "Nutritional benefits, Health benefits, F…  
## $ consumption\_changing <chr> "No change", "Decreased", "No change", "N…  
## $ reason\_to\_change <chr> "", "High consumption of other animal sou…  
## $ healthcare\_guidance <chr> "No", "No", "No", "Not mentioned", "No", …  
## $ limit\_the\_consumption <chr> "No", "No", "No", "", "Maybe", "No", "No"…  
## $ reason\_to\_limit\_change <chr> "", "", "", "", "Due to some health condi…  
## $ freshwater\_fish\_nut <chr> "Strongly agree", "Agree", "Agree", "", "…  
## $ time\_range <chr> "Twice a week", "Every few months", "3-4 …  
## $ avg\_amount <chr> "Two meals", "Two meals", "Two meals", ""…  
## $ num\_of\_pieces <chr> "2", "2", "2", "", "2", "2", "2", "1", ""…  
## $ preparing\_way <chr> "Fried fish", "Curry (With coconut milk),…  
## $ amount\_permonth\_Tilapia <chr> "Less than 2 kg", "Less than 2 kg", "Less…  
## $ amount\_permonth\_Korali <chr> "", "", "No purchasing", "", "", "Less th…  
## $ amount\_permonth\_Hunga <chr> "", "", "No purchasing", "", "", "", "No …  
## $ amount\_permonth\_Loolla <chr> "", "", "Less than 2 kg", "", "", "Less t…  
## $ amount\_permonth\_Pethiya <chr> "", "", "No purchasing", "", "", "", "No …  
## $ amount\_permonth\_Aandha <chr> "", "", "No purchasing", "", "", "", "No …  
## $ amount\_permonth\_Kawayya <chr> "", "", "No purchasing", "", "", "", "No …  
## $ amount\_permonth\_Ankutta <chr> "", "", "No purchasing", "", "", "", "No …  
## $ amount\_permonth\_Magura <chr> "", "", "No purchasing", "", "", "", "No …  
## $ amount\_permonth\_Kanradu.issa <chr> "", "", "No purchasing", "", "", "", "2 -…  
## $ amount\_permonth\_Crap.spp <chr> "", "", "No purchasing", "", "", "", "Les…  
## $ amount\_permonth\_Other <chr> "", "", "No purchasing", "", "", "", "No …  
## $ other\_species <chr> "", "", "", "", "", "", "", "", "", "", "…  
## $ processed\_dried\_fish <chr> "Less than 0.5 kg", "", "0.5 - 1 kg", "",…  
## $ processed\_smoked\_fish <chr> "Less than 0.5 kg", "", "0.5 - 1 kg", "",…  
## $ processed\_other <chr> "", "", "", "", "", "", "No purchasing", …  
## $ other\_fish\_product <chr> "", "", "", "", "", "", "Tilapia ", "", "…  
## $ increasing\_barriers <chr> "Expensive", "Fewer places to purchase, E…  
## $ buying\_place <chr> "Fish stall, Fair", "Fish stall", "Fish s…  
## $ allergies <chr> "No", "No", "No", "", "No", "No", "No", "…  
## $ allergy\_species <chr> "", "", "", "", "", "", "", "", "", "", "…  
## $ symptoms <chr> "", "", "", "", "", "", "", "", "", "", "…

##Attach data set after the rename and display the first five observation  
  
head(fish\_consumption)

## Division Gender Age Weight Academic\_performance  
## 1 rambewa female 10 28 Very Good  
## 2 pandukabhayapura male 5 21.4 Fair  
## 3 rambewa male 8 35 Excellent  
## 4 diviya udabendawewa male 5 18 Good  
## 5 sadamalgama male 4 6.5 Good  
## 6 sadamalgama female 7 21 Fair  
## number\_of\_family\_members  
## 1 5  
## 2 4  
## 3 4  
## 4 7  
## 5 7  
## 6 5  
## animal\_protein  
## 1 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 2 Meat (Chicken,Beef, Pork, etc.), Eggs  
## 3 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 4 Dairy Products  
## 5 Dairy Products  
## 6 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## seafood\_availability eat\_freshwater\_fish fish\_type  
## 1 No Yes Tilapia  
## 2 Yes Yes Not mentioned  
## 3 No Yes Loolla  
## 4 Maybe No Not mentioned  
## 5 Yes Yes Tilapia   
## 6 Maybe Yes Tilapia   
## reason  
## 1   
## 2   
## 3   
## 4 Dislike of the taste or texture  
## 5   
## 6   
## improve\_consumption  
## 1 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 2   
## 3 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 4 Serve with their favorite foods  
## 5 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 6   
## reason\_to\_prefer  
## 1 Awareness of nutritional quality  
## 2 As a food habit  
## 3 Milder taste  
## 4   
## 5 As a food habit  
## 6 Milder taste, As a food habit  
## reason\_to\_include  
## 1 Nutritional benefits, Health benefits, Freshness, Readily available  
## 2 Nutritional benefits, Taste  
## 3 Nutritional benefits  
## 4   
## 5 Nutritional benefits  
## 6 Nutritional benefits, Health benefits  
## consumption\_changing reason\_to\_change  
## 1 No change   
## 2 Decreased High consumption of other animal sources  
## 3 No change   
## 4 Not mentioned   
## 5 Decreased Expensive   
## 6 Decreased Inflation   
## healthcare\_guidance limit\_the\_consumption  
## 1 No No  
## 2 No No  
## 3 No No  
## 4 Not mentioned   
## 5 No Maybe  
## 6 No No  
## reason\_to\_limit\_change freshwater\_fish\_nut  
## 1 Strongly agree  
## 2 Agree  
## 3 Agree  
## 4   
## 5 Due to some health conditions of the children Agree  
## 6 Agree  
## time\_range avg\_amount num\_of\_pieces  
## 1 Twice a week Two meals 2  
## 2 Every few months Two meals 2  
## 3 3-4 times a week Two meals 2  
## 4   
## 5 Once a week One meal 2  
## 6 Twice a week Two meals 2  
## preparing\_way  
## 1 Fried fish  
## 2 Curry (With coconut milk), Fried fish  
## 3 Curry (With coconut milk)  
## 4   
## 5 Fish cutlet, Patties, Sandwiches  
## 6 Curry (With coconut milk), Fried fish, Fish cutlet/patties/sandwiches  
## amount\_permonth\_Tilapia amount\_permonth\_Korali amount\_permonth\_Hunga  
## 1 Less than 2 kg   
## 2 Less than 2 kg   
## 3 Less than 2 kg No purchasing No purchasing  
## 4   
## 5 More than 6 kg   
## 6 Less than 2 kg Less than 2 kg   
## amount\_permonth\_Loolla amount\_permonth\_Pethiya amount\_permonth\_Aandha  
## 1   
## 2   
## 3 Less than 2 kg No purchasing No purchasing  
## 4   
## 5   
## 6 Less than 2 kg   
## amount\_permonth\_Kawayya amount\_permonth\_Ankutta amount\_permonth\_Magura  
## 1   
## 2   
## 3 No purchasing No purchasing No purchasing  
## 4   
## 5   
## 6   
## amount\_permonth\_Kanradu.issa amount\_permonth\_Crap.spp amount\_permonth\_Other  
## 1   
## 2   
## 3 No purchasing No purchasing No purchasing  
## 4   
## 5   
## 6   
## other\_species processed\_dried\_fish processed\_smoked\_fish processed\_other  
## 1 Less than 0.5 kg Less than 0.5 kg   
## 2   
## 3 0.5 - 1 kg 0.5 - 1 kg   
## 4   
## 5 More than 2 kg   
## 6 Less than 0.5 kg Less than 0.5 kg   
## other\_fish\_product increasing\_barriers  
## 1 Expensive  
## 2 Fewer places to purchase, Expensive, Fish yield is low,   
## 3 Expensive  
## 4   
## 5 Expensive  
## 6 Expensive  
## buying\_place allergies allergy\_species symptoms  
## 1 Fish stall, Fair No   
## 2 Fish stall No   
## 3 Fish stall No   
## 4   
## 5 Delivery vehicles No   
## 6 Fish stall, Directly from fishermen No

attach(fish\_consumption)

##Identify the NA values in each coloum  
  
colSums(is.na(fish\_consumption))

## Division Gender   
## 0 0   
## Age Weight   
## 0 0   
## Academic\_performance number\_of\_family\_members   
## 0 0   
## animal\_protein seafood\_availability   
## 0 0   
## eat\_freshwater\_fish fish\_type   
## 0 0   
## reason improve\_consumption   
## 0 0   
## reason\_to\_prefer reason\_to\_include   
## 0 0   
## consumption\_changing reason\_to\_change   
## 0 0   
## healthcare\_guidance limit\_the\_consumption   
## 0 0   
## reason\_to\_limit\_change freshwater\_fish\_nut   
## 0 0   
## time\_range avg\_amount   
## 0 0   
## num\_of\_pieces preparing\_way   
## 0 0   
## amount\_permonth\_Tilapia amount\_permonth\_Korali   
## 0 0   
## amount\_permonth\_Hunga amount\_permonth\_Loolla   
## 0 0   
## amount\_permonth\_Pethiya amount\_permonth\_Aandha   
## 0 0   
## amount\_permonth\_Kawayya amount\_permonth\_Ankutta   
## 0 0   
## amount\_permonth\_Magura amount\_permonth\_Kanradu.issa   
## 0 0   
## amount\_permonth\_Crap.spp amount\_permonth\_Other   
## 0 0   
## other\_species processed\_dried\_fish   
## 0 0   
## processed\_smoked\_fish processed\_other   
## 0 0   
## other\_fish\_product increasing\_barriers   
## 0 0   
## buying\_place allergies   
## 0 0   
## allergy\_species symptoms   
## 0 0

#Looking good! there are no any NA values in the data set.

# Number of observations

dim(fish\_consumption)

## [1] 384 46

#This data set contains 384 obseravtions and 46 columns.

# Summary of the data

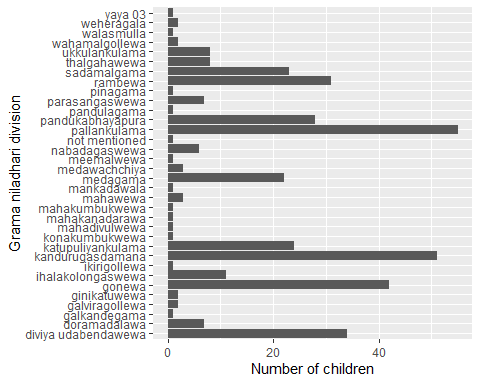
summary(fish\_consumption)

## Division Gender Age Weight   
## Length:384 Length:384 Min. : 3.000 Length:384   
## Class :character Class :character 1st Qu.: 5.000 Class :character   
## Mode :character Mode :character Median : 7.000 Mode :character   
## Mean : 6.753   
## 3rd Qu.: 9.000   
## Max. :10.000   
## Academic\_performance number\_of\_family\_members animal\_protein   
## Length:384 Length:384 Length:384   
## Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##   
## seafood\_availability eat\_freshwater\_fish fish\_type reason   
## Length:384 Length:384 Length:384 Length:384   
## Class :character Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character Mode :character   
##   
##   
##   
## improve\_consumption reason\_to\_prefer reason\_to\_include consumption\_changing  
## Length:384 Length:384 Length:384 Length:384   
## Class :character Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character Mode :character   
##   
##   
##   
## reason\_to\_change healthcare\_guidance limit\_the\_consumption  
## Length:384 Length:384 Length:384   
## Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##   
## reason\_to\_limit\_change freshwater\_fish\_nut time\_range   
## Length:384 Length:384 Length:384   
## Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##   
## avg\_amount num\_of\_pieces preparing\_way   
## Length:384 Length:384 Length:384   
## Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##   
## amount\_permonth\_Tilapia amount\_permonth\_Korali amount\_permonth\_Hunga  
## Length:384 Length:384 Length:384   
## Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##   
## amount\_permonth\_Loolla amount\_permonth\_Pethiya amount\_permonth\_Aandha  
## Length:384 Length:384 Length:384   
## Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##   
## amount\_permonth\_Kawayya amount\_permonth\_Ankutta amount\_permonth\_Magura  
## Length:384 Length:384 Length:384   
## Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##   
## amount\_permonth\_Kanradu.issa amount\_permonth\_Crap.spp amount\_permonth\_Other  
## Length:384 Length:384 Length:384   
## Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##   
## other\_species processed\_dried\_fish processed\_smoked\_fish  
## Length:384 Length:384 Length:384   
## Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##   
## processed\_other other\_fish\_product increasing\_barriers buying\_place   
## Length:384 Length:384 Length:384 Length:384   
## Class :character Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character Mode :character   
##   
##   
##   
## allergies allergy\_species symptoms   
## Length:384 Length:384 Length:384   
## Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##

# Identify the fish consumption pattern and contribution

## Number of children in relevant divisions

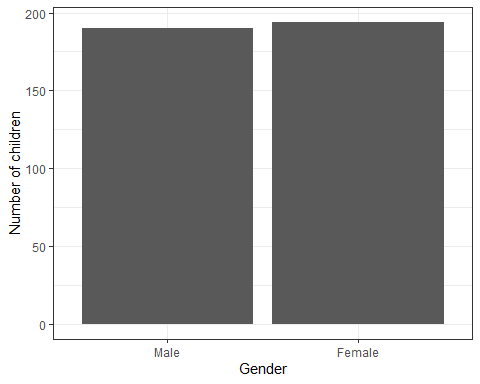
fish\_consumption %>%  
ggplot(mapping = aes(x = Division)) +  
geom\_bar() +  
ylab("Number of children") +  
xlab("Grama niladhari division") +  
coord\_flip()



#Majority of the children who come up with this survey in Pallankulama.

## Comparison between Male and Female children

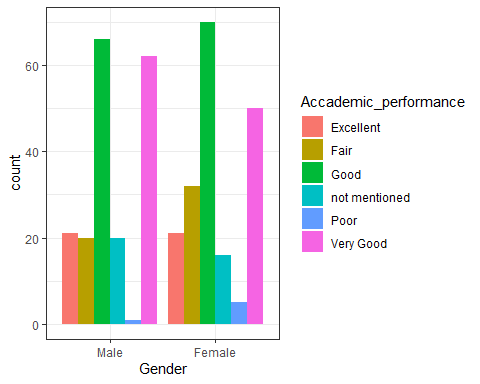
fish\_consumption %>%  
ggplot(mapping = aes(x = Gender)) +  
geom\_bar() +  
scale\_x\_discrete("Gender", labels = c("Male","Female")) +  
  
ylab("Number of children") +  
theme\_bw()



#Female students are highly responsed to this survey compare it with to male students.

## Academic Performance of both Male and Female students

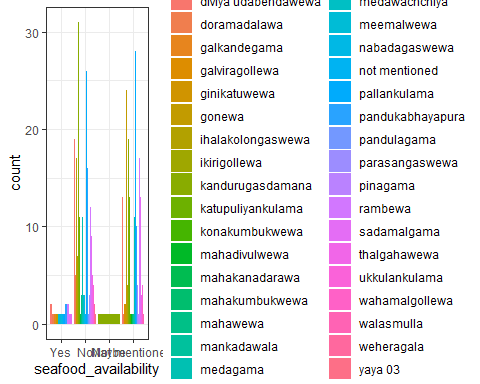
fish\_consumption %>%  
ggplot(mapping = aes(x = Gender))+  
geom\_bar(aes(fill = Academic\_performance), position = "dodge") +  
scale\_x\_discrete("Gender", labels = c("Male","Female") ) +  
labs(x = "Gender", y = "count", fill='Accademic\_performance') +  
theme\_bw()



#Academic performance of both female and male students are looking good. But academic performance of male students are little bit lower than to the female students.

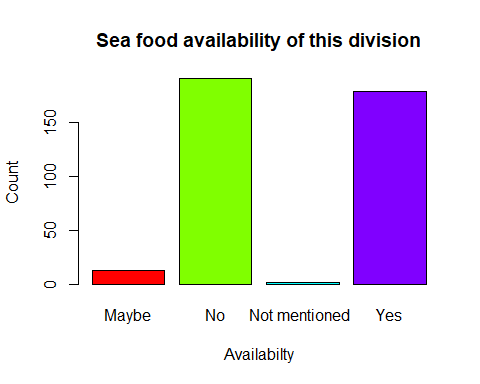
## Sea food availability of the divisions

fish\_consumption %>%  
ggplot(mapping = aes(x = seafood\_availability))+  
geom\_bar(aes(fill = Division), position = "dodge") +  
scale\_x\_discrete("seafood\_availability", labels = c("Yes","No","Maybe","Not mentioned") ) +  
labs(x = "seafood\_availability", y = "count", fill='Division') +  
theme\_bw()



## Sea food availability

# Calculate the frequencies of each state  
availability\_counts <- table(seafood\_availability)  
  
# Create a stacked bar plot  
barplot(availability\_counts, col = rainbow(length(availability\_counts)),   
 xlab = "Availabilty", ylab = "Count", main = "Sea food availability of this division")



## Fish type according to the division

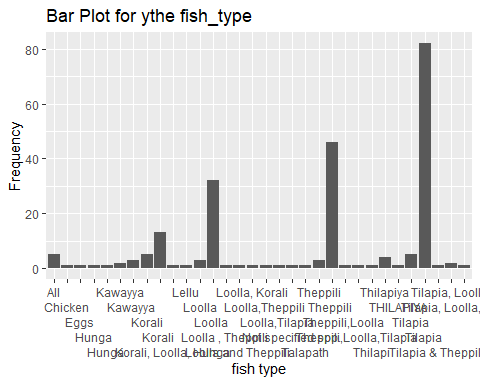
#Omit the data who didn't mentioned the fish type that contains in their divisions  
fish\_consumption\_1 <- filter(fish\_consumption, fish\_type != "Not mentioned")   
 select(fish\_consumption\_1, Division, fish\_type)

## Division fish\_type  
## 1 rambewa Tilapia  
## 2 rambewa Loolla  
## 3 sadamalgama Tilapia   
## 4 sadamalgama Tilapia   
## 5 gonewa Tilapia   
## 6 sadamalgama Tilapia   
## 7 gonewa Thilapiya  
## 8 gonewa Thilapiya  
## 9 gonewa THILAPIYA  
## 10 gonewa Thilapiya  
## 11 gonewa Thilapiya  
## 12 gonewa All  
## 13 pallankulama Korali, Loolla, Hunga  
## 14 walasmulla Korali  
## 15 rambewa Tilapia   
## 16 gonewa Talapath  
## 17 rambewa Thilapi  
## 18 pallankulama Loolla  
## 19 pallankulama Tilapia   
## 20 pallankulama Loolla, Korali  
## 21 pallankulama Korali  
## 22 diviya udabendawewa Tilapia   
## 23 diviya udabendawewa Loolla   
## 24 diviya udabendawewa Tilapia   
## 25 diviya udabendawewa Tilapia   
## 26 diviya udabendawewa Tilapia   
## 27 diviya udabendawewa Theppili   
## 28 diviya udabendawewa All  
## 29 diviya udabendawewa All  
## 30 diviya udabendawewa Loolla   
## 31 diviya udabendawewa Tilapia   
## 32 diviya udabendawewa Chicken  
## 33 diviya udabendawewa Loolla   
## 34 diviya udabendawewa Theppili   
## 35 diviya udabendawewa Theppili   
## 36 diviya udabendawewa Tilapia   
## 37 diviya udabendawewa Tilapia   
## 38 thalgahawewa Theppili   
## 39 pallankulama Tilapia   
## 40 rambewa Tilapia   
## 41 pallankulama Theppili   
## 42 pallankulama Kawayya  
## 43 pallankulama Tilapia   
## 44 diviya udabendawewa Loolla,Tilapia   
## 45 thalgahawewa Theppili   
## 46 pallankulama Hunga  
## 47 medawachchiya Loolla   
## 48 medawachchiya Loolla   
## 49 rambewa Tilapia   
## 50 pallankulama Loolla   
## 51 pallankulama Tilapia   
## 52 pallankulama Tilapia   
## 53 pallankulama Theppili   
## 54 diviya udabendawewa Theppili   
## 55 diviya udabendawewa Theppili   
## 56 diviya udabendawewa Tilapia   
## 57 thalgahawewa Loolla   
## 58 diviya udabendawewa Tilapia   
## 59 diviya udabendawewa Theppili   
## 60 diviya udabendawewa Tilapia   
## 61 thalgahawewa Tilapia   
## 62 diviya udabendawewa Loolla , Theppili   
## 63 diviya udabendawewa Tilapia   
## 64 gonewa Loolla   
## 65 gonewa Tilapia   
## 66 gonewa Tilapia   
## 67 gonewa Tilapia   
## 68 gonewa Tilapia   
## 69 diviya udabendawewa Tilapia   
## 70 pallankulama Tilapia   
## 71 gonewa Theppili   
## 72 gonewa Theppili   
## 73 gonewa Tilapia   
## 74 gonewa Tilapia   
## 75 gonewa Tilapia   
## 76 gonewa Tilapia   
## 77 gonewa Korali  
## 78 gonewa Tilapia   
## 79 thalgahawewa Theppili   
## 80 gonewa Tilapia   
## 81 gonewa Loolla   
## 82 gonewa Tilapia   
## 83 medagama Tilapia   
## 84 kandurugasdamana Tilapia   
## 85 medagama Tilapia   
## 86 medagama Tilapia   
## 87 medagama Loolla   
## 88 medagama Loolla and Theppili   
## 89 kandurugasdamana Loolla   
## 90 medagama Tilapia   
## 91 sadamalgama Theppili   
## 92 medagama Tilapia, Loolla, Pethiya   
## 93 medagama Tilapia   
## 94 kandurugasdamana Tilapia   
## 95 medagama Lellu  
## 96 parasangaswewa Theppili   
## 97 kandurugasdamana Tilapia, Loolla   
## 98 medagama Theppili   
## 99 medagama Korali  
## 100 medagama Tilapia, Loolla   
## 101 kandurugasdamana Tilapia  
## 102 medagama Loolla  
## 103 medagama Korali   
## 104 kandurugasdamana Tilapia  
## 105 katupuliyankulama Eggs  
## 106 katupuliyankulama Theppili   
## 107 doramadalawa Theppili   
## 108 sadamalgama Theppili  
## 109 pandukabhayapura Loolla,Theppili   
## 110 doramadalawa Tilapia  
## 111 sadamalgama Loolla   
## 112 ukkulankulama Theppili,Loolla   
## 113 rambewa Loolla   
## 114 pandukabhayapura Not specified spp.  
## 115 rambewa Theppili   
## 116 doramadalawa Theppili  
## 117 sadamalgama Loolla   
## 118 doramadalawa Tilapia   
## 119 yaya 03 Theppili   
## 120 pallankulama Loolla   
## 121 pandukabhayapura Tilapia   
## 122 katupuliyankulama Theppili   
## 123 kandurugasdamana Tilapia  
## 124 pallankulama Theppili  
## 125 pandukabhayapura Tilapia   
## 126 mahadivulwewa Tilapia   
## 127 not mentioned Korali  
## 128 doramadalawa Tilapia   
## 129 katupuliyankulama Theppili   
## 130 doramadalawa Theppili   
## 131 kandurugasdamana Theppili   
## 132 kandurugasdamana Tilapia   
## 133 katupuliyankulama Theppili   
## 134 parasangaswewa Tilapia   
## 135 katupuliyankulama Theppili   
## 136 katupuliyankulama Tilapia   
## 137 parasangaswewa Korali   
## 138 pandukabhayapura Kawayya  
## 139 kandurugasdamana Tilapia   
## 140 pandukabhayapura Loolla   
## 141 pandukabhayapura Theppili   
## 142 kandurugasdamana Tilapia   
## 143 kandurugasdamana Tilapia   
## 144 pandukabhayapura Loolla   
## 145 pandukabhayapura Loolla   
## 146 kandurugasdamana Theppili   
## 147 kandurugasdamana Theppili   
## 148 kandurugasdamana Tilapia   
## 149 pandukabhayapura Theppili   
## 150 kandurugasdamana Loolla   
## 151 pandukabhayapura Loolla   
## 152 kandurugasdamana Tilapia   
## 153 kandurugasdamana Tilapia   
## 154 kandurugasdamana Tilapia   
## 155 mahawewa Loolla   
## 156 kandurugasdamana Tilapia   
## 157 kandurugasdamana Theppili   
## 158 kandurugasdamana Tilapia   
## 159 pandukabhayapura Tilapia   
## 160 kandurugasdamana Tilapia   
## 161 sadamalgama Theppili   
## 162 wahamalgollewa Loolla   
## 163 parasangaswewa Theppili   
## 164 katupuliyankulama Theppili   
## 165 katupuliyankulama Theppili   
## 166 sadamalgama Tilapia   
## 167 sadamalgama Theppili   
## 168 pallankulama Theppili   
## 169 doramadalawa Tilapia   
## 170 pallankulama Theppili   
## 171 katupuliyankulama Korali   
## 172 parasangaswewa Loolla   
## 173 ihalakolongaswewa Korali   
## 174 katupuliyankulama Korali   
## 175 sadamalgama Kawayya   
## 176 sadamalgama Loolla   
## 177 weheragala Loolla   
## 178 rambewa Loolla   
## 179 pallankulama Korali   
## 180 pallankulama Theppili   
## 181 rambewa Loolla   
## 182 pallankulama Tilapia   
## 183 pallankulama Korali   
## 184 pallankulama Korali   
## 185 medawachchiya Loolla   
## 186 pallankulama Loolla   
## 187 ihalakolongaswewa Tilapia   
## 188 ihalakolongaswewa Tilapia   
## 189 ihalakolongaswewa Tilapia   
## 190 ihalakolongaswewa Theppili   
## 191 wahamalgollewa Theppili   
## 192 galviragollewa Loolla   
## 193 galviragollewa Tilapia   
## 194 ihalakolongaswewa Tilapia   
## 195 ihalakolongaswewa Kawayya   
## 196 pallankulama Theppili   
## 197 gonewa Tilapia   
## 198 mahakanadarawa Tilapia   
## 199 pallankulama Theppili   
## 200 ukkulankulama Korali   
## 201 rambewa Tilapia   
## 202 nabadagaswewa Tilapia & Theppili   
## 203 ikirigollewa Korali   
## 204 rambewa Theppili   
## 205 rambewa Tilapia   
## 206 rambewa Tilapia   
## 207 pallankulama Tilapia   
## 208 nabadagaswewa All  
## 209 nabadagaswewa Tilapia   
## 210 gonewa Tilapia   
## 211 nabadagaswewa Loolla   
## 212 sadamalgama Theppili   
## 213 galkandegama Theppili,Loolla,Tilapia   
## 214 meemalwewa All  
## 215 rambewa Loolla   
## 216 pallankulama Theppili   
## 217 sadamalgama Tilapia   
## 218 nabadagaswewa Korali   
## 219 ukkulankulama Tilapia   
## 220 pallankulama Korali   
## 221 diviya udabendawewa Tilapia   
## 222 pallankulama Korali   
## 223 ukkulankulama Kawayya   
## 224 weheragala Hunga

table\_1 <- table(fish\_type, Division)  
table\_1

## Division  
## fish\_type diviya udabendawewa doramadalawa galkandegama  
## All 2 0 0  
## Chicken 1 0 0  
## Eggs 0 0 0  
## Hunga 0 0 0  
## Hunga 0 0 0  
## Kawayya 0 0 0  
## Kawayya 0 0 0  
## Korali 0 0 0  
## Korali 0 0 0  
## Korali, Loolla, Hunga 0 0 0  
## Lellu 0 0 0  
## Loolla 0 0 0  
## Loolla 3 0 0  
## Loolla , Theppili 1 0 0  
## Loolla and Theppili 0 0 0  
## Loolla, Korali 0 0 0  
## Loolla,Theppili 0 0 0  
## Loolla,Tilapia 1 0 0  
## Not mentioned 7 0 0  
## Not specified spp. 0 0 0  
## Talapath 0 0 0  
## Theppili 0 1 0  
## Theppili 6 2 0  
## Theppili,Loolla 0 0 0  
## Theppili,Loolla,Tilapia 0 0 1  
## Thilapi 0 0 0  
## Thilapiya 0 0 0  
## THILAPIYA 0 0 0  
## Tilapia 0 1 0  
## Tilapia 13 3 0  
## Tilapia & Theppili 0 0 0  
## Tilapia, Loolla 0 0 0  
## Tilapia, Loolla, Pethiya 0 0 0  
## Division  
## fish\_type galviragollewa ginikatuwewa gonewa  
## All 0 0 1  
## Chicken 0 0 0  
## Eggs 0 0 0  
## Hunga 0 0 0  
## Hunga 0 0 0  
## Kawayya 0 0 0  
## Kawayya 0 0 0  
## Korali 0 0 1  
## Korali 0 0 0  
## Korali, Loolla, Hunga 0 0 0  
## Lellu 0 0 0  
## Loolla 0 0 0  
## Loolla 1 0 2  
## Loolla , Theppili 0 0 0  
## Loolla and Theppili 0 0 0  
## Loolla, Korali 0 0 0  
## Loolla,Theppili 0 0 0  
## Loolla,Tilapia 0 0 0  
## Not mentioned 0 2 16  
## Not specified spp. 0 0 0  
## Talapath 0 0 1  
## Theppili 0 0 0  
## Theppili 0 0 2  
## Theppili,Loolla 0 0 0  
## Theppili,Loolla,Tilapia 0 0 0  
## Thilapi 0 0 0  
## Thilapiya 0 0 4  
## THILAPIYA 0 0 1  
## Tilapia 0 0 0  
## Tilapia 1 0 14  
## Tilapia & Theppili 0 0 0  
## Tilapia, Loolla 0 0 0  
## Tilapia, Loolla, Pethiya 0 0 0  
## Division  
## fish\_type ihalakolongaswewa ikirigollewa kandurugasdamana  
## All 0 0 0  
## Chicken 0 0 0  
## Eggs 0 0 0  
## Hunga 0 0 0  
## Hunga 0 0 0  
## Kawayya 0 0 0  
## Kawayya 1 0 0  
## Korali 0 0 0  
## Korali 1 1 0  
## Korali, Loolla, Hunga 0 0 0  
## Lellu 0 0 0  
## Loolla 0 0 0  
## Loolla 0 0 2  
## Loolla , Theppili 0 0 0  
## Loolla and Theppili 0 0 0  
## Loolla, Korali 0 0 0  
## Loolla,Theppili 0 0 0  
## Loolla,Tilapia 0 0 0  
## Not mentioned 4 0 28  
## Not specified spp. 0 0 0  
## Talapath 0 0 0  
## Theppili 0 0 0  
## Theppili 1 0 4  
## Theppili,Loolla 0 0 0  
## Theppili,Loolla,Tilapia 0 0 0  
## Thilapi 0 0 0  
## Thilapiya 0 0 0  
## THILAPIYA 0 0 0  
## Tilapia 0 0 3  
## Tilapia 4 0 13  
## Tilapia & Theppili 0 0 0  
## Tilapia, Loolla 0 0 1  
## Tilapia, Loolla, Pethiya 0 0 0  
## Division  
## fish\_type katupuliyankulama konakumbukwewa mahadivulwewa  
## All 0 0 0  
## Chicken 0 0 0  
## Eggs 1 0 0  
## Hunga 0 0 0  
## Hunga 0 0 0  
## Kawayya 0 0 0  
## Kawayya 0 0 0  
## Korali 0 0 0  
## Korali 2 0 0  
## Korali, Loolla, Hunga 0 0 0  
## Lellu 0 0 0  
## Loolla 0 0 0  
## Loolla 0 0 0  
## Loolla , Theppili 0 0 0  
## Loolla and Theppili 0 0 0  
## Loolla, Korali 0 0 0  
## Loolla,Theppili 0 0 0  
## Loolla,Tilapia 0 0 0  
## Not mentioned 13 1 0  
## Not specified spp. 0 0 0  
## Talapath 0 0 0  
## Theppili 0 0 0  
## Theppili 7 0 0  
## Theppili,Loolla 0 0 0  
## Theppili,Loolla,Tilapia 0 0 0  
## Thilapi 0 0 0  
## Thilapiya 0 0 0  
## THILAPIYA 0 0 0  
## Tilapia 0 0 0  
## Tilapia 1 0 1  
## Tilapia & Theppili 0 0 0  
## Tilapia, Loolla 0 0 0  
## Tilapia, Loolla, Pethiya 0 0 0  
## Division  
## fish\_type mahakanadarawa mahakumbukwewa mahawewa mankadawala  
## All 0 0 0 0  
## Chicken 0 0 0 0  
## Eggs 0 0 0 0  
## Hunga 0 0 0 0  
## Hunga 0 0 0 0  
## Kawayya 0 0 0 0  
## Kawayya 0 0 0 0  
## Korali 0 0 0 0  
## Korali 0 0 0 0  
## Korali, Loolla, Hunga 0 0 0 0  
## Lellu 0 0 0 0  
## Loolla 0 0 0 0  
## Loolla 0 0 1 0  
## Loolla , Theppili 0 0 0 0  
## Loolla and Theppili 0 0 0 0  
## Loolla, Korali 0 0 0 0  
## Loolla,Theppili 0 0 0 0  
## Loolla,Tilapia 0 0 0 0  
## Not mentioned 0 1 2 1  
## Not specified spp. 0 0 0 0  
## Talapath 0 0 0 0  
## Theppili 0 0 0 0  
## Theppili 0 0 0 0  
## Theppili,Loolla 0 0 0 0  
## Theppili,Loolla,Tilapia 0 0 0 0  
## Thilapi 0 0 0 0  
## Thilapiya 0 0 0 0  
## THILAPIYA 0 0 0 0  
## Tilapia 0 0 0 0  
## Tilapia 1 0 0 0  
## Tilapia & Theppili 0 0 0 0  
## Tilapia, Loolla 0 0 0 0  
## Tilapia, Loolla, Pethiya 0 0 0 0  
## Division  
## fish\_type medagama medawachchiya meemalwewa nabadagaswewa  
## All 0 0 1 1  
## Chicken 0 0 0 0  
## Eggs 0 0 0 0  
## Hunga 0 0 0 0  
## Hunga 0 0 0 0  
## Kawayya 0 0 0 0  
## Kawayya 0 0 0 0  
## Korali 1 0 0 0  
## Korali 1 0 0 1  
## Korali, Loolla, Hunga 0 0 0 0  
## Lellu 1 0 0 0  
## Loolla 1 0 0 0  
## Loolla 1 3 0 1  
## Loolla , Theppili 0 0 0 0  
## Loolla and Theppili 1 0 0 0  
## Loolla, Korali 0 0 0 0  
## Loolla,Theppili 0 0 0 0  
## Loolla,Tilapia 0 0 0 0  
## Not mentioned 8 0 0 1  
## Not specified spp. 0 0 0 0  
## Talapath 0 0 0 0  
## Theppili 0 0 0 0  
## Theppili 1 0 0 0  
## Theppili,Loolla 0 0 0 0  
## Theppili,Loolla,Tilapia 0 0 0 0  
## Thilapi 0 0 0 0  
## Thilapiya 0 0 0 0  
## THILAPIYA 0 0 0 0  
## Tilapia 0 0 0 0  
## Tilapia 5 0 0 1  
## Tilapia & Theppili 0 0 0 1  
## Tilapia, Loolla 1 0 0 0  
## Tilapia, Loolla, Pethiya 1 0 0 0  
## Division  
## fish\_type not mentioned pallankulama pandukabhayapura  
## All 0 0 0  
## Chicken 0 0 0  
## Eggs 0 0 0  
## Hunga 0 1 0  
## Hunga 0 0 0  
## Kawayya 0 1 1  
## Kawayya 0 0 0  
## Korali 1 1 0  
## Korali 0 5 0  
## Korali, Loolla, Hunga 0 1 0  
## Lellu 0 0 0  
## Loolla 0 1 0  
## Loolla 0 3 4  
## Loolla , Theppili 0 0 0  
## Loolla and Theppili 0 0 0  
## Loolla, Korali 0 1 0  
## Loolla,Theppili 0 0 1  
## Loolla,Tilapia 0 0 0  
## Not mentioned 0 24 16  
## Not specified spp. 0 0 1  
## Talapath 0 0 0  
## Theppili 0 1 0  
## Theppili 0 8 2  
## Theppili,Loolla 0 0 0  
## Theppili,Loolla,Tilapia 0 0 0  
## Thilapi 0 0 0  
## Thilapiya 0 0 0  
## THILAPIYA 0 0 0  
## Tilapia 0 0 0  
## Tilapia 0 8 3  
## Tilapia & Theppili 0 0 0  
## Tilapia, Loolla 0 0 0  
## Tilapia, Loolla, Pethiya 0 0 0  
## Division  
## fish\_type pandulagama parasangaswewa pinagama rambewa  
## All 0 0 0 0  
## Chicken 0 0 0 0  
## Eggs 0 0 0 0  
## Hunga 0 0 0 0  
## Hunga 0 0 0 0  
## Kawayya 0 0 0 0  
## Kawayya 0 0 0 0  
## Korali 0 0 0 0  
## Korali 0 1 0 0  
## Korali, Loolla, Hunga 0 0 0 0  
## Lellu 0 0 0 0  
## Loolla 0 0 0 1  
## Loolla 0 1 0 4  
## Loolla , Theppili 0 0 0 0  
## Loolla and Theppili 0 0 0 0  
## Loolla, Korali 0 0 0 0  
## Loolla,Theppili 0 0 0 0  
## Loolla,Tilapia 0 0 0 0  
## Not mentioned 1 2 1 16  
## Not specified spp. 0 0 0 0  
## Talapath 0 0 0 0  
## Theppili 0 0 0 0  
## Theppili 0 2 0 2  
## Theppili,Loolla 0 0 0 0  
## Theppili,Loolla,Tilapia 0 0 0 0  
## Thilapi 0 0 0 1  
## Thilapiya 0 0 0 0  
## THILAPIYA 0 0 0 0  
## Tilapia 0 0 0 1  
## Tilapia 0 1 0 6  
## Tilapia & Theppili 0 0 0 0  
## Tilapia, Loolla 0 0 0 0  
## Tilapia, Loolla, Pethiya 0 0 0 0  
## Division  
## fish\_type sadamalgama thalgahawewa ukkulankulama  
## All 0 0 0  
## Chicken 0 0 0  
## Eggs 0 0 0  
## Hunga 0 0 0  
## Hunga 0 0 0  
## Kawayya 0 0 0  
## Kawayya 1 0 1  
## Korali 0 0 0  
## Korali 0 0 1  
## Korali, Loolla, Hunga 0 0 0  
## Lellu 0 0 0  
## Loolla 0 0 0  
## Loolla 3 1 0  
## Loolla , Theppili 0 0 0  
## Loolla and Theppili 0 0 0  
## Loolla, Korali 0 0 0  
## Loolla,Theppili 0 0 0  
## Loolla,Tilapia 0 0 0  
## Not mentioned 9 3 4  
## Not specified spp. 0 0 0  
## Talapath 0 0 0  
## Theppili 1 0 0  
## Theppili 4 3 0  
## Theppili,Loolla 0 0 1  
## Theppili,Loolla,Tilapia 0 0 0  
## Thilapi 0 0 0  
## Thilapiya 0 0 0  
## THILAPIYA 0 0 0  
## Tilapia 0 0 0  
## Tilapia 5 1 1  
## Tilapia & Theppili 0 0 0  
## Tilapia, Loolla 0 0 0  
## Tilapia, Loolla, Pethiya 0 0 0  
## Division  
## fish\_type wahamalgollewa walasmulla weheragala yaya 03  
## All 0 0 0 0  
## Chicken 0 0 0 0  
## Eggs 0 0 0 0  
## Hunga 0 0 0 0  
## Hunga 0 0 1 0  
## Kawayya 0 0 0 0  
## Kawayya 0 0 0 0  
## Korali 0 1 0 0  
## Korali 0 0 0 0  
## Korali, Loolla, Hunga 0 0 0 0  
## Lellu 0 0 0 0  
## Loolla 0 0 0 0  
## Loolla 1 0 1 0  
## Loolla , Theppili 0 0 0 0  
## Loolla and Theppili 0 0 0 0  
## Loolla, Korali 0 0 0 0  
## Loolla,Theppili 0 0 0 0  
## Loolla,Tilapia 0 0 0 0  
## Not mentioned 0 0 0 0  
## Not specified spp. 0 0 0 0  
## Talapath 0 0 0 0  
## Theppili 0 0 0 0  
## Theppili 1 0 0 1  
## Theppili,Loolla 0 0 0 0  
## Theppili,Loolla,Tilapia 0 0 0 0  
## Thilapi 0 0 0 0  
## Thilapiya 0 0 0 0  
## THILAPIYA 0 0 0 0  
## Tilapia 0 0 0 0  
## Tilapia 0 0 0 0  
## Tilapia & Theppili 0 0 0 0  
## Tilapia, Loolla 0 0 0 0  
## Tilapia, Loolla, Pethiya 0 0 0 0

ggplot(fish\_consumption\_1, aes(x = fish\_type)) +  
 geom\_bar() +  
 xlab("fish type") +  
 ylab("Frequency") +  
 ggtitle("Bar Plot for ythe fish\_type") + scale\_x\_discrete(guide = guide\_axis(n.dodge=5))

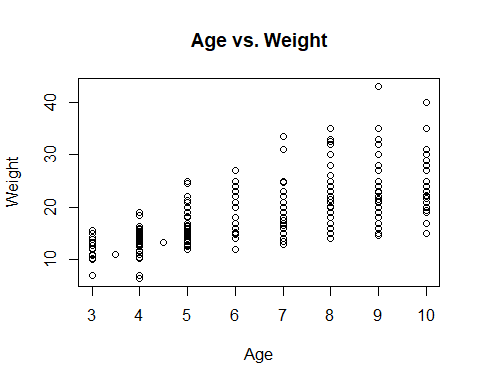


## The relationship between Age and Weight

#Eliminate the data who not mentioned their weights  
fish\_consumption\_2 <- filter(fish\_consumption, Weight != "not mentioned")  
 select(fish\_consumption\_2, Age, Weight)

## Age Weight  
## 1 10.0 28  
## 2 5.0 21.4  
## 3 8.0 35  
## 4 5.0 18  
## 5 4.0 6.5  
## 6 7.0 21  
## 7 10.0 22  
## 8 5.0 13  
## 9 9.0 24  
## 10 8.0 20  
## 11 7.0 18  
## 12 8.0 17  
## 13 8.0 18  
## 14 8.0 14  
## 15 10.0 30  
## 16 4.0 7  
## 17 7.0 24.7  
## 18 3.0 10  
## 19 6.0 18  
## 20 8.0 15  
## 21 5.0 18  
## 22 3.0 10  
## 23 6.0 22  
## 24 6.0 18  
## 25 9.0 16  
## 26 7.0 19  
## 27 9.0 18  
## 28 7.0 16  
## 29 10.0 29  
## 30 9.0 35  
## 31 9.0 19  
## 32 9.0 15  
## 33 9.0 30  
## 34 6.0 17  
## 35 10.0 25  
## 36 7.0 18  
## 37 7.0 16  
## 38 7.0 15  
## 39 7.0 22  
## 40 7.0 17.5  
## 41 7.0 20  
## 42 8.0 32  
## 43 7.0 16.5  
## 44 8.0 15  
## 45 5.0 15  
## 46 10.0 21.6  
## 47 4.0 10.2  
## 48 10.0 22.2  
## 49 5.0 16  
## 50 4.0 14.25  
## 51 7.0 33.5  
## 52 7.0 14  
## 53 9.0 21.1  
## 54 9.0 27  
## 55 5.0 16  
## 56 4.5 13.3  
## 57 4.0 16.3  
## 58 9.0 25  
## 59 9.0 14.7  
## 60 9.0 25  
## 61 9.0 33  
## 62 6.0 14.8  
## 63 3.0 13.2  
## 64 4.0 14.2  
## 65 5.0 14.8  
## 66 5.0 13  
## 67 4.0 12.8  
## 68 5.0 12.6  
## 69 3.5 11  
## 70 4.0 14.9  
## 71 4.0 14.5  
## 72 4.0 11.8  
## 73 4.0 15.5  
## 74 5.0 18.2  
## 75 5.0 14.8  
## 76 4.0 12.9  
## 77 5.0 14.4  
## 78 8.0 24  
## 79 5.0 16  
## 80 9.0 22.9  
## 81 9.0 24  
## 82 6.0 20  
## 83 9.0 43  
## 84 6.0 17  
## 85 8.0 26  
## 86 9.0 17  
## 87 9.0 20  
## 88 10.0 23  
## 89 7.0 21  
## 90 7.0 16  
## 91 6.0 15  
## 92 9.0 23  
## 93 10.0 35  
## 94 8.0 21  
## 95 8.0 20  
## 96 6.0 16  
## 97 8.0 22  
## 98 7.0 14  
## 99 8.0 20  
## 100 6.0 15.3  
## 101 7.0 20  
## 102 9.0 33  
## 103 5.0 16  
## 104 10.0 19.5  
## 105 10.0 19  
## 106 8.0 16  
## 107 10.0 27  
## 108 8.0 20  
## 109 10.0 27  
## 110 6.0 14  
## 111 5.0 15  
## 112 10.0 25  
## 113 9.0 21  
## 114 8.0 21.5  
## 115 8.0 19  
## 116 8.0 23  
## 117 7.0 17  
## 118 8.0 28  
## 119 8.0 20  
## 120 7.0 19  
## 121 7.0 18  
## 122 7.0 17  
## 123 7.0 17  
## 124 7.0 13.5  
## 125 4.0 18.5  
## 126 4.0 12.5  
## 127 5.0 17  
## 128 9.0 18  
## 129 9.0 15  
## 130 9.0 15  
## 131 8.0 21  
## 132 8.0 20  
## 133 5.0 13  
## 134 6.0 15  
## 135 8.0 28  
## 136 8.0 18  
## 137 9.0 20  
## 138 9.0 30  
## 139 8.0 30  
## 140 8.0 18  
## 141 8.0 22  
## 142 8.0 25  
## 143 9.0 21.5  
## 144 8.0 20  
## 145 8.0 15  
## 146 7.0 16  
## 147 7.0 23  
## 148 6.0 24  
## 149 4.0 16  
## 150 5.0 14  
## 151 7.0 13  
## 152 7.0 21  
## 153 7.0 21  
## 154 9.0 32  
## 155 10.0 40  
## 156 10.0 28  
## 157 10.0 30  
## 158 10.0 20  
## 159 9.0 19  
## 160 10.0 22  
## 161 10.0 21  
## 162 8.0 23  
## 163 7.0 20  
## 164 7.0 20  
## 165 9.0 35  
## 166 6.0 12  
## 167 6.0 18  
## 168 9.0 24  
## 169 10.0 31  
## 170 10.0 15  
## 171 9.0 20  
## 172 10.0 22  
## 173 10.0 22  
## 174 4.0 14.6  
## 175 8.0 23  
## 176 4.0 11  
## 177 10.0 21  
## 178 4.0 14.7  
## 179 4.0 12.5  
## 180 5.0 14  
## 181 9.0 21  
## 182 9.0 28  
## 183 9.0 20  
## 184 8.0 20.2  
## 185 9.0 22  
## 186 9.0 22  
## 187 9.0 21  
## 188 10.0 25  
## 189 5.0 15.5  
## 190 5.0 15.3  
## 191 4.0 15.5  
## 192 4.0 14.1  
## 193 5.0 19  
## 194 4.0 16.4  
## 195 3.0 12.7  
## 196 10.0 17  
## 197 3.0 10.3  
## 198 6.0 21  
## 199 6.0 27  
## 200 9.0 23  
## 201 9.0 24  
## 202 9.0 20  
## 203 9.0 18  
## 204 9.0 27  
## 205 8.0 26  
## 206 6.0 15  
## 207 5.0 25  
## 208 6.0 17  
## 209 7.0 21  
## 210 7.0 18  
## 211 7.0 19  
## 212 7.0 17  
## 213 7.0 25  
## 214 7.0 17  
## 215 7.0 15  
## 216 7.0 20  
## 217 7.0 19  
## 218 10.0 22  
## 219 7.0 17  
## 220 6.0 18  
## 221 6.0 17  
## 222 6.0 21  
## 223 5.0 16  
## 224 9.0 25  
## 225 10.0 24  
## 226 10.0 19  
## 227 10.0 20  
## 228 8.0 25  
## 229 5.0 18  
## 230 10.0 24  
## 231 8.0 22  
## 232 8.0 20  
## 233 10.0 25  
## 234 10.0 27  
## 235 9.0 19  
## 236 4.0 16  
## 237 5.0 21  
## 238 10.0 28  
## 239 3.0 7  
## 240 5.0 14.5  
## 241 4.0 15.8  
## 242 4.0 12.6  
## 243 8.0 21  
## 244 9.0 25  
## 245 9.0 28  
## 246 9.0 16  
## 247 6.0 23  
## 248 6.0 16  
## 249 3.0 15  
## 250 5.0 18.1  
## 251 4.0 14.8  
## 252 4.0 14  
## 253 4.0 13  
## 254 4.0 12.8  
## 255 4.0 14.5  
## 256 8.0 24  
## 257 8.0 23  
## 258 8.0 26  
## 259 8.0 20  
## 260 7.0 17  
## 261 7.0 16.5  
## 262 4.0 14  
## 263 5.0 24.5  
## 264 5.0 12.8  
## 265 8.0 23  
## 266 9.0 16  
## 267 6.0 17  
## 268 6.0 16  
## 269 5.0 13.5  
## 270 6.0 18  
## 271 6.0 15  
## 272 6.0 20  
## 273 6.0 21  
## 274 9.0 21  
## 275 7.0 18  
## 276 8.0 19  
## 277 8.0 16  
## 278 7.0 25  
## 279 4.0 14  
## 280 6.0 17  
## 281 8.0 23  
## 282 4.0 14.8  
## 283 7.0 14  
## 284 10.0 21  
## 285 5.0 12  
## 286 6.0 18  
## 287 7.0 13  
## 288 7.0 19  
## 289 4.0 10.5  
## 290 4.0 11.7  
## 291 4.0 12.5  
## 292 5.0 14  
## 293 3.0 13.3  
## 294 4.0 14  
## 295 5.0 15  
## 296 4.0 14  
## 297 3.0 14.2  
## 298 4.0 15.5  
## 299 3.0 11  
## 300 3.0 12.2  
## 301 3.0 11  
## 302 3.0 10.9  
## 303 5.0 14.5  
## 304 5.0 17  
## 305 4.0 11  
## 306 4.0 15  
## 307 5.0 17  
## 308 5.0 14.6  
## 309 3.0 13.9  
## 310 3.0 13.2  
## 311 5.0 16.6  
## 312 4.0 15.9  
## 313 5.0 15  
## 314 5.0 16.3  
## 315 4.0 13.2  
## 316 4.0 14  
## 317 4.0 13.9  
## 318 4.0 15.2  
## 319 4.0 14.1  
## 320 3.0 15.6  
## 321 4.0 13.2  
## 322 4.0 13.5  
## 323 5.0 22  
## 324 4.0 19  
## 325 6.0 25  
## 326 7.0 31  
## 327 8.0 33  
## 328 5.0 20  
## 329 3.0 12  
## 330 7.0 31  
## 331 8.0 25  
## 332 7.0 31  
## 333 8.0 32.5  
## 334 5.0 19  
## 335 4.0 15  
## 336 5.0 13  
## 337 4.0 13  
## 338 5.0 25

#Convert Age and Weight as numeric values  
{fish\_consumption\_2$Age <- as.numeric(fish\_consumption\_2$Age)  
fish\_consumption\_2$Weight <- as.numeric(fish\_consumption\_2$Weight)}  
   
#Plot Age aganist the Weight   
plot(fish\_consumption\_2$Age, fish\_consumption\_2$Weight, xlab = "Age", ylab = "Weight", main = "Age vs. Weight")



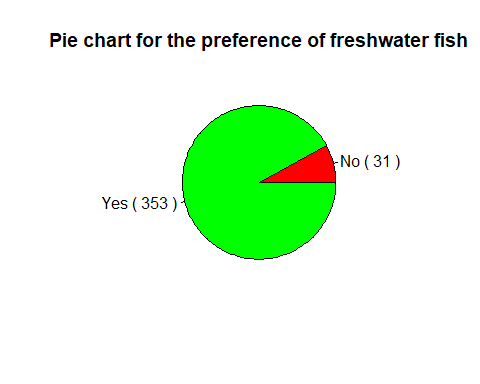
#Calculate the correlation coefficient  
correlation <- cor(fish\_consumption\_2$Age, fish\_consumption\_2$Weight)  
correlation

## [1] 0.6656333

#By looking at the plot and correlation coefficient, there is a modarate positive relationship between Age and Weight of the students in this division.

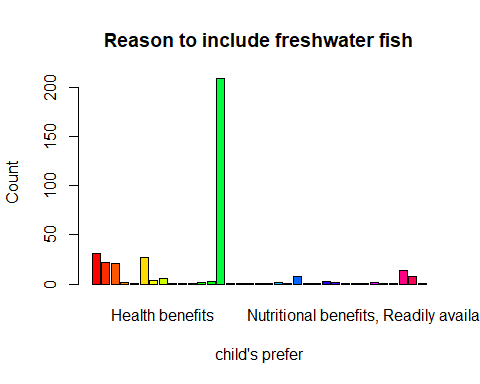
## Eat or not freshwater fish

# Calculate the frequencies of "yes" and "no"  
counts <- table(eat\_freshwater\_fish)  
  
# Assign colors to each category  
colors <- c("red", "green")  
  
# Create a pie chart with counts and colored segments  
pie(counts, labels = paste(names(counts), "(", counts, ")"),   
 main = "Pie chart for the preference of freshwater fish", col = colors)



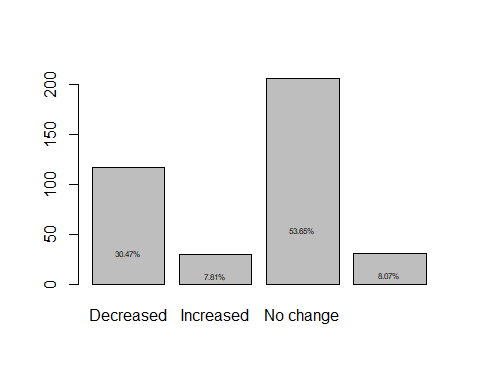
## Reason to include freshwater fish into meal

# Calculate the frequencies of each reason to prefer  
reason\_to\_include\_counts <- table(reason\_to\_include)  
  
# Create a bar plot  
barplot(reason\_to\_include\_counts, col = rainbow(length(reason\_to\_include\_counts)),   
 xlab = "child's prefer", ylab = "Count", main = "Reason to include freshwater fish")

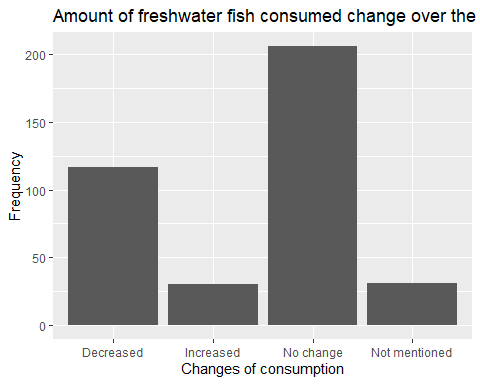


## Amount of freshwater fish consumed change over the last 3 years

# Create a list of values for each category  
values <- table(consumption\_changing)  
  
# Calculate the percentages  
percentages = 100 \* values / sum(values)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values), y=percentages, labels=paste0(percentages, "%"), cex=0.5)



ggplot(fish\_consumption, aes(x = consumption\_changing)) +  
 geom\_bar() +  
 xlab("Changes of consumption") +  
 ylab("Frequency") +  
 ggtitle("Amount of freshwater fish consumed change over the last 3 years")



## Decrements of the fish consumption and reasons

fish\_consumption\_3 <- filter(fish\_consumption, consumption\_changing == "Decreased")  
 select(fish\_consumption\_3, consumption\_changing, reason\_to\_change)

## consumption\_changing  
## 1 Decreased  
## 2 Decreased  
## 3 Decreased  
## 4 Decreased  
## 5 Decreased  
## 6 Decreased  
## 7 Decreased  
## 8 Decreased  
## 9 Decreased  
## 10 Decreased  
## 11 Decreased  
## 12 Decreased  
## 13 Decreased  
## 14 Decreased  
## 15 Decreased  
## 16 Decreased  
## 17 Decreased  
## 18 Decreased  
## 19 Decreased  
## 20 Decreased  
## 21 Decreased  
## 22 Decreased  
## 23 Decreased  
## 24 Decreased  
## 25 Decreased  
## 26 Decreased  
## 27 Decreased  
## 28 Decreased  
## 29 Decreased  
## 30 Decreased  
## 31 Decreased  
## 32 Decreased  
## 33 Decreased  
## 34 Decreased  
## 35 Decreased  
## 36 Decreased  
## 37 Decreased  
## 38 Decreased  
## 39 Decreased  
## 40 Decreased  
## 41 Decreased  
## 42 Decreased  
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## 45 Decreased  
## 46 Decreased  
## 47 Decreased  
## 48 Decreased  
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## 51 Decreased  
## 52 Decreased  
## 53 Decreased  
## 54 Decreased  
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## 57 Decreased  
## 58 Decreased  
## 59 Decreased  
## 60 Decreased  
## 61 Decreased  
## 62 Decreased  
## 63 Decreased  
## 64 Decreased  
## 65 Decreased  
## 66 Decreased  
## 67 Decreased  
## 68 Decreased  
## 69 Decreased  
## 70 Decreased  
## 71 Decreased  
## 72 Decreased  
## 73 Decreased  
## 74 Decreased  
## 75 Decreased  
## 76 Decreased  
## 77 Decreased  
## 78 Decreased  
## 79 Decreased  
## 80 Decreased  
## 81 Decreased  
## 82 Decreased  
## 83 Decreased  
## 84 Decreased  
## 85 Decreased  
## 86 Decreased  
## 87 Decreased  
## 88 Decreased  
## 89 Decreased  
## 90 Decreased  
## 91 Decreased  
## 92 Decreased  
## 93 Decreased  
## 94 Decreased  
## 95 Decreased  
## 96 Decreased  
## 97 Decreased  
## 98 Decreased  
## 99 Decreased  
## 100 Decreased  
## 101 Decreased  
## 102 Decreased  
## 103 Decreased  
## 104 Decreased  
## 105 Decreased  
## 106 Decreased  
## 107 Decreased  
## 108 Decreased  
## 109 Decreased  
## 110 Decreased  
## 111 Decreased  
## 112 Decreased  
## 113 Decreased  
## 114 Decreased  
## 115 Decreased  
## 116 Decreased  
## 117 Decreased  
## reason\_to\_change  
## 1 High consumption of other animal sources  
## 2 Expensive   
## 3 Inflation   
## 4 Expensive   
## 5 Expensive   
## 6 Expensive   
## 7 Expensive   
## 8 Expensive   
## 9 Expensive   
## 10 Economic Difficulties   
## 11 Expensive   
## 12   
## 13 Less availability   
## 14 Economic Difficulties   
## 15   
## 16 Expensive   
## 17 Economic Difficulties   
## 18   
## 19 Expensive   
## 20 Economic Difficulties   
## 21 Expensive   
## 22   
## 23 Economic Difficulties   
## 24 Due to consumption of eggs  
## 25 Economic Difficulties   
## 26 Economic Difficulties   
## 27 Expensive   
## 28   
## 29 Economic Difficulties   
## 30 Economic Difficulties   
## 31 Inflation   
## 32   
## 33 Expensive   
## 34 Expensive   
## 35   
## 36   
## 37 Inflation   
## 38 Expensive   
## 39   
## 40 Expensive   
## 41 Expensive   
## 42   
## 43 Expensive   
## 44 Expensive   
## 45 Economic Difficulties   
## 46 Inflation   
## 47 Economic Difficulties   
## 48 Expensive   
## 49 Expensive   
## 50 Economic Difficulties   
## 51 Expensive   
## 52 Economic Difficulties   
## 53   
## 54 Expensive   
## 55   
## 56 Expensive   
## 57   
## 58 Economic Difficulties   
## 59 Dislikeness   
## 60 Economic Difficulties   
## 61 Economic Difficulties   
## 62 Economic Difficulties   
## 63   
## 64 Expensive   
## 65 Expensive   
## 66   
## 67 Expensive   
## 68   
## 69   
## 70 Expensive   
## 71   
## 72 Expensive   
## 73 Economic Difficulties   
## 74 Due to Corona  
## 75   
## 76 Economic difficulties   
## 77 Higher prices  
## 78 Economic difficulties   
## 79 Economic difficulties   
## 80   
## 81 Expensive   
## 82 Economic difficulties   
## 83 Expensive   
## 84 Expensive   
## 85 Expensive   
## 86   
## 87 Expensive   
## 88 Expensive   
## 89 Expensive   
## 90 Expensive   
## 91 Expensive   
## 92 Expensive   
## 93 Expensive   
## 94 Expensive   
## 95 Expensive   
## 96 Expensive   
## 97 Expensive   
## 98 Expensive   
## 99 Expensive   
## 100   
## 101 Expensive   
## 102 Economic difficulties   
## 103 Expensive   
## 104 Expensive   
## 105 Expensive   
## 106 Expensive   
## 107 Expensive   
## 108 Expensive   
## 109 Economic difficulties   
## 110 Fewer places to purchase and seafood consumption as an alternative   
## 111 Expensive   
## 112 Expensive   
## 113   
## 114   
## 115 Expensive   
## 116   
## 117

table\_5 <- table(fish\_consumption\_3$consumption\_changing, fish\_consumption\_3$reason\_to\_change)   
table\_5

##   
## Dislikeness Due to consumption of eggs Due to Corona  
## Decreased 26 1 1 1  
##   
## Economic difficulties Economic Difficulties Expensive   
## Decreased 6 18 56  
##   
## Fewer places to purchase and seafood consumption as an alternative   
## Decreased 1  
##   
## High consumption of other animal sources Higher prices Inflation   
## Decreased 1 1 4  
##   
## Less availability   
## Decreased 1

## Increment of the fish consumption and reasons

fish\_consumption\_4 <- filter(fish\_consumption, consumption\_changing == "Increased")  
 select(fish\_consumption\_4, consumption\_changing, reason\_to\_change)

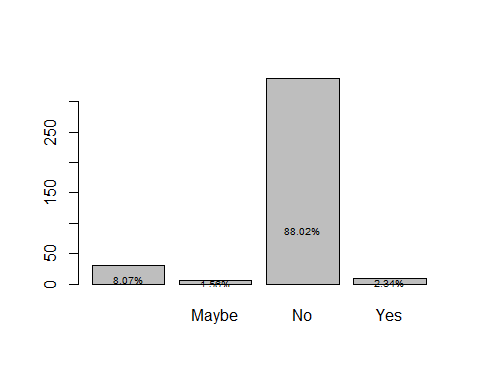
## consumption\_changing reason\_to\_change  
## 1 Increased   
## 2 Increased Readily available   
## 3 Increased   
## 4 Increased   
## 5 Increased Preference of the child has increased   
## 6 Increased   
## 7 Increased freshness  
## 8 Increased Nutrients  
## 9 Increased   
## 10 Increased   
## 11 Increased   
## 12 Increased   
## 13 Increased   
## 14 Increased   
## 15 Increased   
## 16 Increased High consumption   
## 17 Increased The number of family members increased   
## 18 Increased Change of residence   
## 19 Increased   
## 20 Increased The number of family members increased   
## 21 Increased The number of family members increased   
## 22 Increased   
## 23 Increased   
## 24 Increased   
## 25 Increased Preference of the child has increased   
## 26 Increased Readily available   
## 27 Increased   
## 28 Increased   
## 29 Increased Preference of the child has increased   
## 30 Increased

table\_6 <- table(fish\_consumption\_4$consumption\_changing, fish\_consumption\_4$reason\_to\_change)   
table\_6

##   
## Change of residence freshness High consumption Nutrients  
## Increased 18 1 1 1 1  
##   
## Preference of the child has increased Readily available   
## Increased 3 2  
##   
## The number of family members increased   
## Increased 3

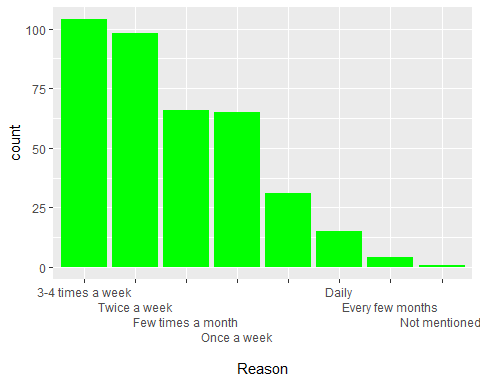
## Limitation of the fish consumption

# Create a list of values for each category  
values <- table(limit\_the\_consumption)  
  
# Calculate the percentages  
percentages = 100 \* values / sum(values)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values), y=percentages, labels=paste0(percentages, "%"), cex=0.6)



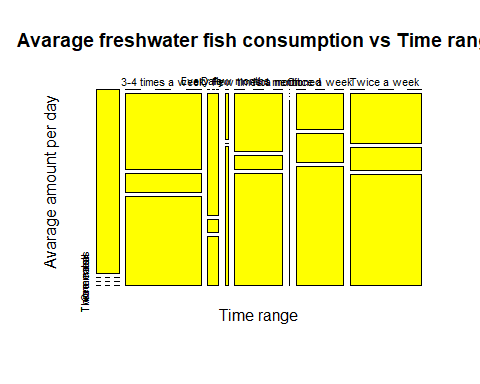
## Time period that are freshwater fish eating

ggplot(fish\_consumption, aes(x=reorder(time\_range, time\_range, function(x)-length(x)))) +  
 geom\_bar(fill='green') +   
 labs(x='Reason') +  
 scale\_x\_discrete(guide = guide\_axis(n.dodge=5))



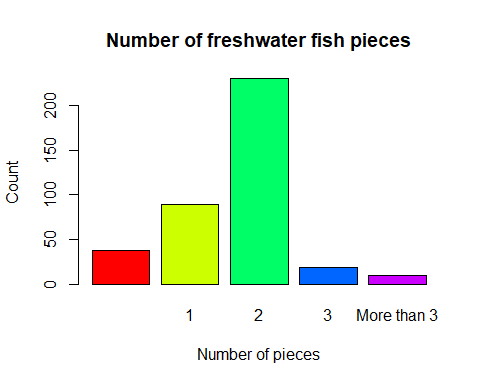
## Average freshwater fish consumption vs Time range

counts <- table(fish\_consumption$time\_range, fish\_consumption$avg\_amount)  
mosaicplot(counts, xlab='Time range', ylab='Avarage amount per day',main='Avarage freshwater fish consumption vs Time range', col='yellow')



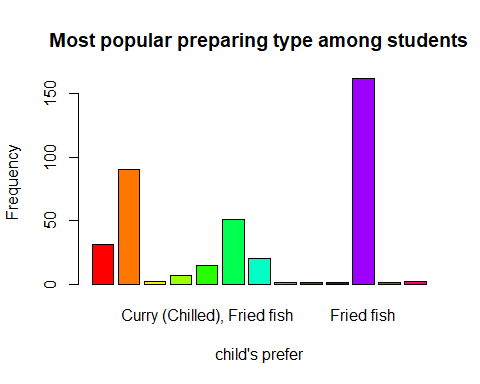
## Number of freshwater fish pieces for one meal

# Calculate the frequencies of each state  
pieces <- table(num\_of\_pieces)  
  
# Create a stacked bar plot  
barplot(pieces, col = rainbow(length(pieces)),   
 xlab = "Number of pieces", ylab = "Count", main = "Number of freshwater fish pieces")



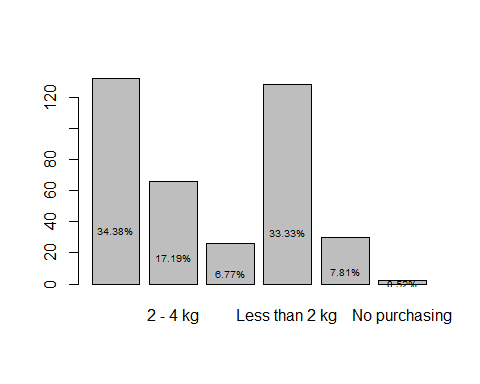
## Most popular preparing way among the children

# Calculate the frequencies of each preparing way  
preparing\_way\_counts <- table(preparing\_way)  
  
# Create a bar plot  
barplot(preparing\_way\_counts, col = rainbow(length(preparing\_way\_counts)),   
 xlab = "child's prefer", ylab = "Frequency", main = "Most popular preparing type among students")

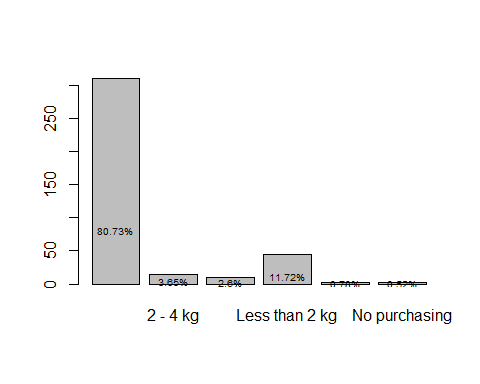


## Usually purchase fish type

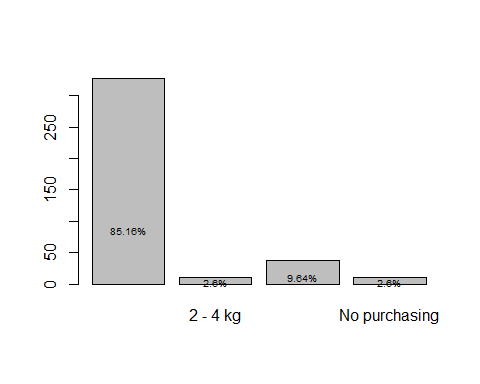
################Tilapia####################  
# Create a list of values for each category  
values\_1 <- table(amount\_permonth\_Tilapia)  
  
# Calculate the percentages  
percentages = 100 \* values\_1 / sum(values\_1)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_1), y=percentages, labels=paste0(percentages, "%"), cex=0.6)



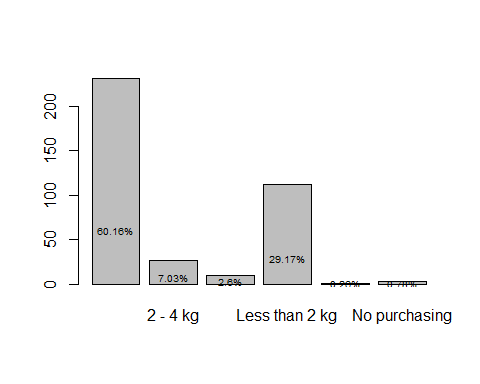
################Korali####################  
  
# Create a list of values for each category  
values\_2 <- table(amount\_permonth\_Korali)  
  
# Calculate the percentages  
percentages = 100 \* values\_2 / sum(values\_2)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_2), y=percentages, labels=paste0(percentages, "%"), cex=0.6)



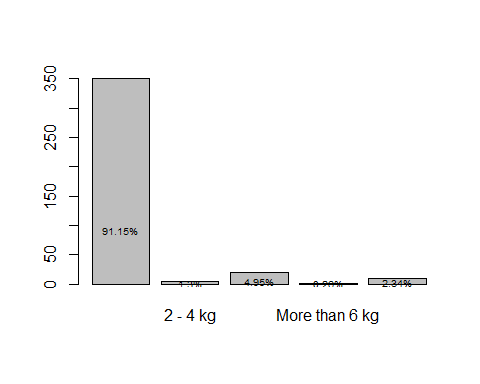
################Hunga####################  
  
# Create a list of values for each category  
values\_3 <- table(amount\_permonth\_Hunga)  
  
# Calculate the percentages  
percentages = 100 \* values\_3 / sum(values\_3)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_3), y=percentages, labels=paste0(percentages, "%"), cex=0.6)



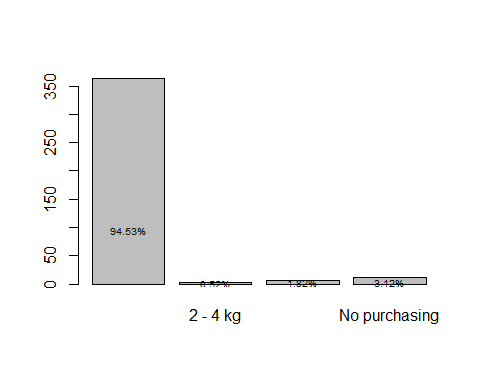
################Loolla####################  
  
# Create a list of values for each category  
values\_4 <- table(amount\_permonth\_Loolla)  
  
# Calculate the percentages  
percentages = 100 \* values\_4 / sum(values\_4)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_4), y=percentages, labels=paste0(percentages, "%"), cex=0.6)



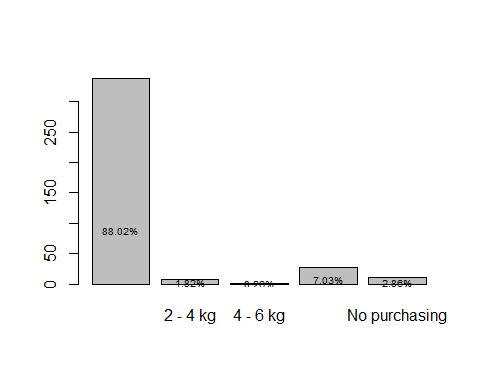
################Pethiya####################  
  
# Create a list of values for each category  
values\_5 <- table(amount\_permonth\_Pethiya)  
  
# Calculate the percentages  
percentages = 100 \* values\_5 / sum(values\_5)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_5), y=percentages, labels=paste0(percentages, "%"), cex=0.6)



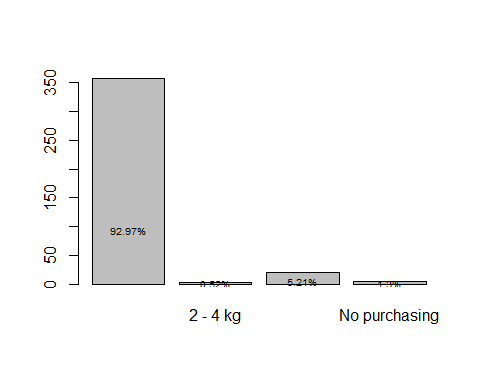
################Aandha####################  
  
# Create a list of values for each category  
values\_6 <- table(amount\_permonth\_Aandha)  
  
# Calculate the percentages  
percentages = 100 \* values\_6 / sum(values\_6)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_6), y=percentages, labels=paste0(percentages, "%"), cex=0.6)



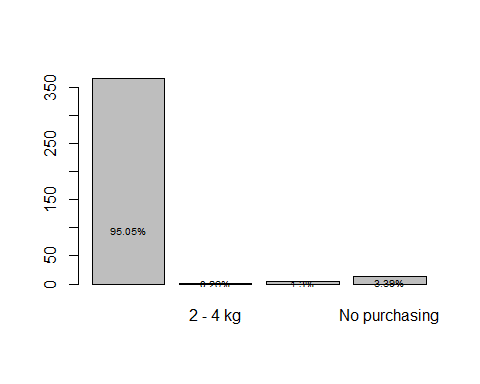
################Kawayya####################  
  
# Create a list of values for each category  
values\_7 <- table(amount\_permonth\_Kawayya)  
  
# Calculate the percentages  
percentages = 100 \* values\_7 / sum(values\_7)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_7), y=percentages, labels=paste0(percentages, "%"), cex=0.6)



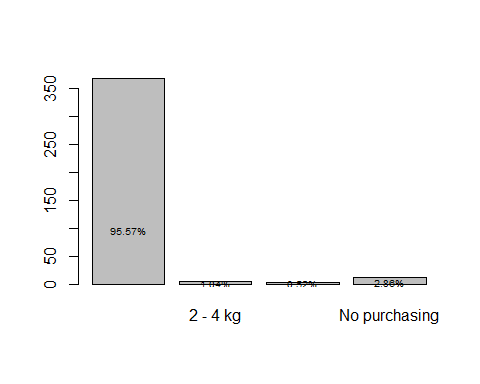
################Ankutta####################  
  
# Create a list of values for each category  
values\_8 <- table(amount\_permonth\_Ankutta)  
  
# Calculate the percentages  
percentages = 100 \* values\_8 / sum(values\_8)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_8), y=percentages, labels=paste0(percentages, "%"), cex=0.6)



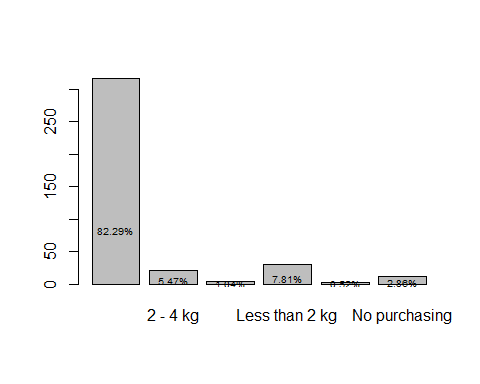
################Magura####################  
  
# Create a list of values for each category  
values\_9 <- table(amount\_permonth\_Magura)  
  
# Calculate the percentages  
percentages = 100 \* values\_9 / sum(values\_9)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_9), y=percentages, labels=paste0(percentages, "%"), cex=0.6)



################Kanradu.issa####################  
  
# Create a list of values for each category  
values\_10 <- table(amount\_permonth\_Kanradu.issa)  
  
# Calculate the percentages  
percentages = 100 \* values\_10 / sum(values\_10)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_10), y=percentages, labels=paste0(percentages, "%"), cex=0.6)  
  
  
################Crap.spp####################  
  
# Create a list of values for each category  
values\_11 <- table(amount\_permonth\_Kanradu.issa)  
  
# Calculate the percentages  
percentages = 100 \* values\_11 / sum(values\_11)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_11), y=percentages, labels=paste0(percentages, "%"), cex=0.6)

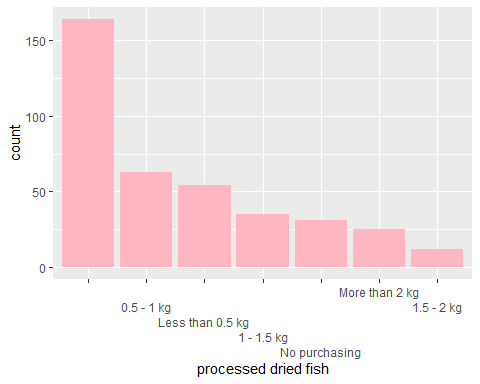


################Other####################  
  
# Create a list of values for each category  
values\_12 <- table(amount\_permonth\_Other)  
  
# Calculate the percentages  
percentages = 100 \* values\_12 / sum(values\_12)  
percentages = round(percentages, 2)  
  
# Add the percentages to the bars  
text(x=barplot(values\_12), y=percentages, labels=paste0(percentages, "%"), cex=0.6)

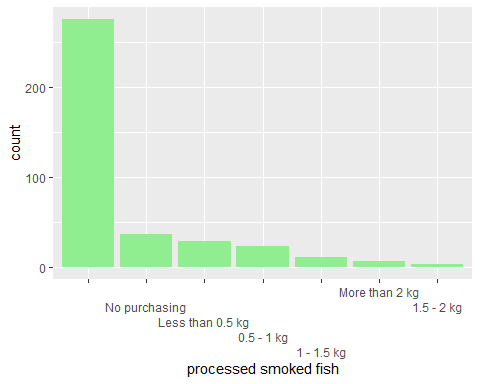


## Purchased processed freshwater fish product

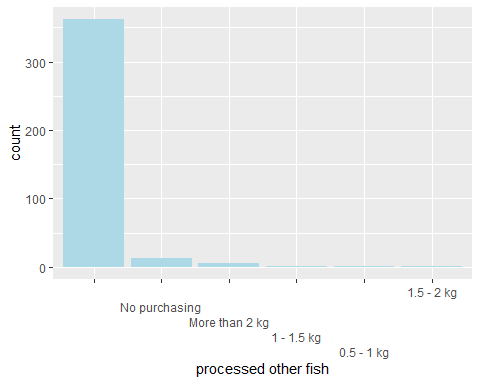
################Processed dried fish####################  
  
ggplot(fish\_consumption, aes(x=reorder(processed\_dried\_fish, processed\_dried\_fish, function(x)-length(x)))) +  
 geom\_bar(fill='lightpink') +   
 labs(x='processed dried fish') +  
 scale\_x\_discrete(guide = guide\_axis(n.dodge=5))



################Processed smoked fish####################  
  
ggplot(fish\_consumption, aes(x=reorder(processed\_smoked\_fish, processed\_smoked\_fish, function(x)-length(x)))) +  
 geom\_bar(fill='lightgreen') +   
 labs(x='processed smoked fish') +  
 scale\_x\_discrete(guide = guide\_axis(n.dodge=5))

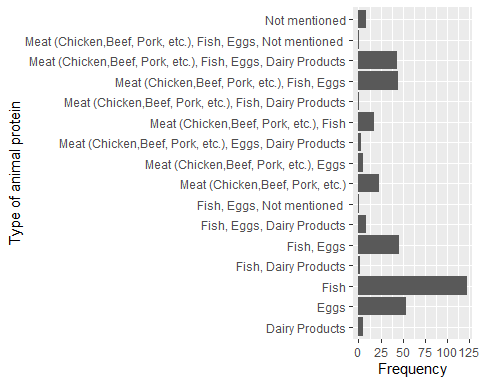


################Processed other fish####################  
  
ggplot(fish\_consumption, aes(x=reorder(processed\_other, processed\_other, function(x)-length(x)))) +  
 geom\_bar(fill='lightblue') +   
 labs(x='processed other fish') +  
 scale\_x\_discrete(guide = guide\_axis(n.dodge=5))



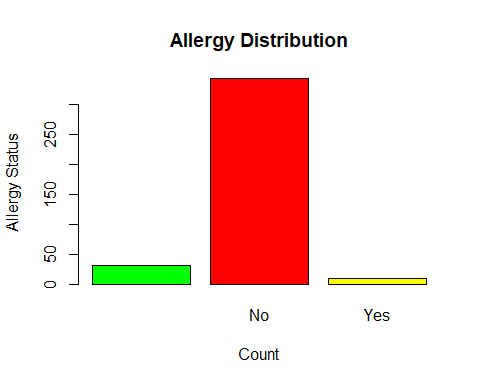
## Animal protein type

fish\_consumption %>%  
ggplot(mapping = aes(x = animal\_protein)) +  
geom\_bar() +  
ylab("Frequency") +  
xlab("Type of animal protein") +  
coord\_flip()



# Allergy distribution

# Calculate the frequencies of each response  
allergy\_counts <- table(allergies)  
  
# Create a horizontal bar plot  
barplot(allergy\_counts, horiz = FALSE, col = c("green", "red","yellow"),  
 xlab = "Count", ylab = "Allergy Status", main = "Allergy Distribution")



## Identify the Allergy Species

#Omit the data who didn't mentioned the fish type that contains in their divisions  
fish\_consumption\_3 <- filter(fish\_consumption, allergies == "Yes")  
 select(fish\_consumption\_3, allergies, allergy\_species, symptoms)

## allergies allergy\_species symptoms  
## 1 Yes Hunga Hives  
## 2 Yes Itching  
## 3 Yes Vomiting  
## 4 Yes   
## 5 Yes Vomiting, Bloating  
## 6 Yes Vomiting, Bloating   
## 7 Yes   
## 8 Yes   
## 9 Yes   
## 10 Yes

table\_3 <- table(allergies, allergy\_species)  
table\_3

## allergy\_species  
## allergies Hunga  
## 31 0  
## No 343 0  
## Yes 9 1

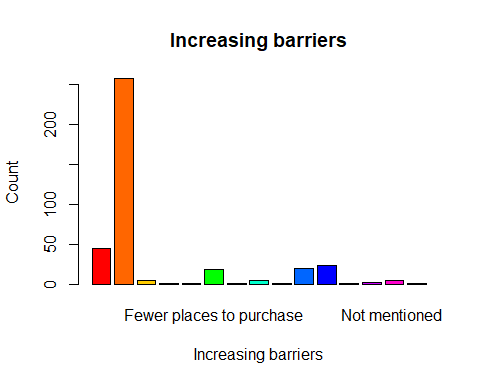
table\_4 <- table(allergies, allergy\_species, symptoms)  
table\_4

## , , symptoms =   
##   
## allergy\_species  
## allergies Hunga  
## 31 0  
## No 343 0  
## Yes 5 0  
##   
## , , symptoms = Hives  
##   
## allergy\_species  
## allergies Hunga  
## 0 0  
## No 0 0  
## Yes 0 1  
##   
## , , symptoms = Itching  
##   
## allergy\_species  
## allergies Hunga  
## 0 0  
## No 0 0  
## Yes 1 0  
##   
## , , symptoms = Vomiting  
##   
## allergy\_species  
## allergies Hunga  
## 0 0  
## No 0 0  
## Yes 1 0  
##   
## , , symptoms = Vomiting, Bloating  
##   
## allergy\_species  
## allergies Hunga  
## 0 0  
## No 0 0  
## Yes 1 0  
##   
## , , symptoms = Vomiting, Bloating   
##   
## allergy\_species  
## allergies Hunga  
## 0 0  
## No 0 0  
## Yes 1 0

#The one and olny allergy species is Hunga

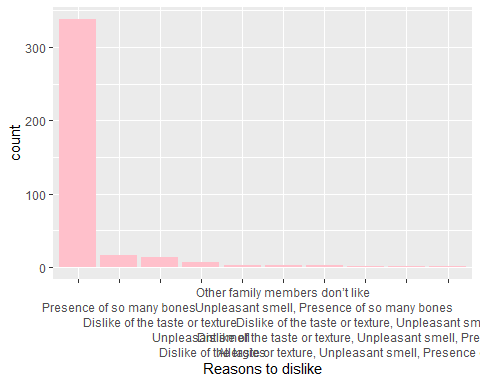
# Increasing barriers

# Calculate the frequencies of each buying place  
barriers\_counts <- table(increasing\_barriers)  
  
# Create a bar plot  
barplot(barriers\_counts, col = rainbow(length(barriers\_counts)),   
 xlab = "Increasing barriers", ylab = "Count", main = "Increasing barriers")



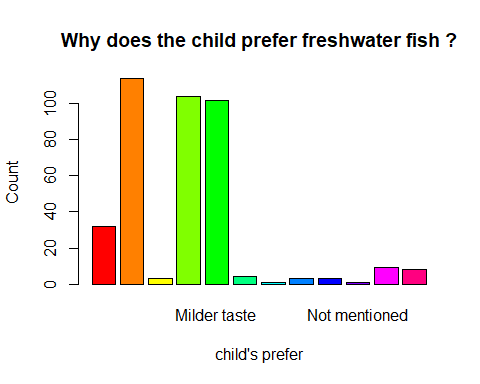
## Reasons to dislike

ggplot(fish\_consumption, aes(x=reorder(reason, reason, function(x)-length(x)))) +  
 geom\_bar(fill='pink') +   
 labs(x='Reasons to dislike') +  
 scale\_x\_discrete(guide = guide\_axis(n.dodge=5))



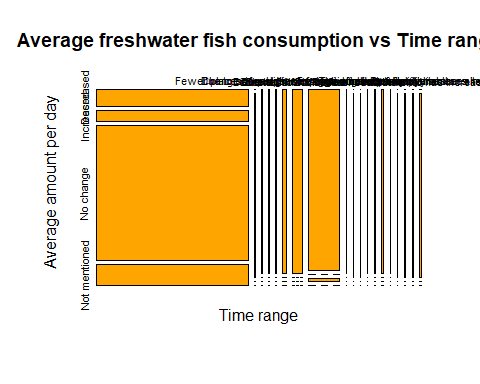
## Why does the child prefer freshwater fish ?

# Calculate the frequencies of each reason to prefer  
reason\_to\_prefer\_counts <- table(reason\_to\_prefer)  
  
# Create a bar plot  
barplot(reason\_to\_prefer\_counts, col = rainbow(length(reason\_to\_prefer\_counts)),   
 xlab = "child's prefer", ylab = "Count", main = "Why does the child prefer freshwater fish ?")



## Average freshwater fish consumption vs Time range

counts <- table(fish\_consumption$reason\_to\_change,fish\_consumption$consumption\_changing)  
  
mosaicplot(counts, xlab='Time range', ylab='Average amount per day',main='Average freshwater fish consumption vs Time range', col='orange')



## Relationship between some variables

##Here we are going to check the significance relationship of two variables by considering null hypothesis as "There is no any relationship between two variables" at 5% significance level  
  
fisher.test(table(fish\_consumption$seafood\_availability,fish\_consumption$eat\_freshwater\_fish))

##   
## Fisher's Exact Test for Count Data  
##   
## data: table(fish\_consumption$seafood\_availability, fish\_consumption$eat\_freshwater\_fish)  
## p-value = 0.2878  
## alternative hypothesis: two.sided

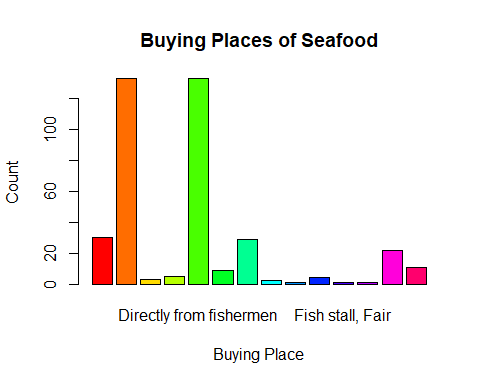
fisher.test(table(fish\_consumption$Academic\_performance,fish\_consumption$eat\_freshwater\_fish))

##   
## Fisher's Exact Test for Count Data  
##   
## data: table(fish\_consumption$Academic\_performance, fish\_consumption$eat\_freshwater\_fish)  
## p-value = 0.177  
## alternative hypothesis: two.sided

##Since two of the p-values > 0.05, we don't have enough evidence to say that there is a significance relationship among those variables.

## Sea food buying places

# Calculate the frequencies of each buying place  
buying\_place\_counts <- table(buying\_place)  
  
# Create a bar plot  
barplot(buying\_place\_counts, col = rainbow(length(buying\_place\_counts)),   
 xlab = "Buying Place", ylab = "Count", main = "Buying Places of Seafood")



# Quantity of fish consumed by children

##Convert dataset as data frame in order to add new coloum  
data <- data.frame(fish\_consumption)  
head(data)

## Division Gender Age Weight Academic\_performance  
## 1 rambewa female 10 28 Very Good  
## 2 pandukabhayapura male 5 21.4 Fair  
## 3 rambewa male 8 35 Excellent  
## 4 diviya udabendawewa male 5 18 Good  
## 5 sadamalgama male 4 6.5 Good  
## 6 sadamalgama female 7 21 Fair  
## number\_of\_family\_members  
## 1 5  
## 2 4  
## 3 4  
## 4 7  
## 5 7  
## 6 5  
## animal\_protein  
## 1 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 2 Meat (Chicken,Beef, Pork, etc.), Eggs  
## 3 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 4 Dairy Products  
## 5 Dairy Products  
## 6 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## seafood\_availability eat\_freshwater\_fish fish\_type  
## 1 No Yes Tilapia  
## 2 Yes Yes Not mentioned  
## 3 No Yes Loolla  
## 4 Maybe No Not mentioned  
## 5 Yes Yes Tilapia   
## 6 Maybe Yes Tilapia   
## reason  
## 1   
## 2   
## 3   
## 4 Dislike of the taste or texture  
## 5   
## 6   
## improve\_consumption  
## 1 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 2   
## 3 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 4 Serve with their favorite foods  
## 5 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 6   
## reason\_to\_prefer  
## 1 Awareness of nutritional quality  
## 2 As a food habit  
## 3 Milder taste  
## 4   
## 5 As a food habit  
## 6 Milder taste, As a food habit  
## reason\_to\_include  
## 1 Nutritional benefits, Health benefits, Freshness, Readily available  
## 2 Nutritional benefits, Taste  
## 3 Nutritional benefits  
## 4   
## 5 Nutritional benefits  
## 6 Nutritional benefits, Health benefits  
## consumption\_changing reason\_to\_change  
## 1 No change   
## 2 Decreased High consumption of other animal sources  
## 3 No change   
## 4 Not mentioned   
## 5 Decreased Expensive   
## 6 Decreased Inflation   
## healthcare\_guidance limit\_the\_consumption  
## 1 No No  
## 2 No No  
## 3 No No  
## 4 Not mentioned   
## 5 No Maybe  
## 6 No No  
## reason\_to\_limit\_change freshwater\_fish\_nut  
## 1 Strongly agree  
## 2 Agree  
## 3 Agree  
## 4   
## 5 Due to some health conditions of the children Agree  
## 6 Agree  
## time\_range avg\_amount num\_of\_pieces  
## 1 Twice a week Two meals 2  
## 2 Every few months Two meals 2  
## 3 3-4 times a week Two meals 2  
## 4   
## 5 Once a week One meal 2  
## 6 Twice a week Two meals 2  
## preparing\_way  
## 1 Fried fish  
## 2 Curry (With coconut milk), Fried fish  
## 3 Curry (With coconut milk)  
## 4   
## 5 Fish cutlet, Patties, Sandwiches  
## 6 Curry (With coconut milk), Fried fish, Fish cutlet/patties/sandwiches  
## amount\_permonth\_Tilapia amount\_permonth\_Korali amount\_permonth\_Hunga  
## 1 Less than 2 kg   
## 2 Less than 2 kg   
## 3 Less than 2 kg No purchasing No purchasing  
## 4   
## 5 More than 6 kg   
## 6 Less than 2 kg Less than 2 kg   
## amount\_permonth\_Loolla amount\_permonth\_Pethiya amount\_permonth\_Aandha  
## 1   
## 2   
## 3 Less than 2 kg No purchasing No purchasing  
## 4   
## 5   
## 6 Less than 2 kg   
## amount\_permonth\_Kawayya amount\_permonth\_Ankutta amount\_permonth\_Magura  
## 1   
## 2   
## 3 No purchasing No purchasing No purchasing  
## 4   
## 5   
## 6   
## amount\_permonth\_Kanradu.issa amount\_permonth\_Crap.spp amount\_permonth\_Other  
## 1   
## 2   
## 3 No purchasing No purchasing No purchasing  
## 4   
## 5   
## 6   
## other\_species processed\_dried\_fish processed\_smoked\_fish processed\_other  
## 1 Less than 0.5 kg Less than 0.5 kg   
## 2   
## 3 0.5 - 1 kg 0.5 - 1 kg   
## 4   
## 5 More than 2 kg   
## 6 Less than 0.5 kg Less than 0.5 kg   
## other\_fish\_product increasing\_barriers  
## 1 Expensive  
## 2 Fewer places to purchase, Expensive, Fish yield is low,   
## 3 Expensive  
## 4   
## 5 Expensive  
## 6 Expensive  
## buying\_place allergies allergy\_species symptoms  
## 1 Fish stall, Fair No   
## 2 Fish stall No   
## 3 Fish stall No   
## 4   
## 5 Delivery vehicles No   
## 6 Fish stall, Directly from fishermen No

##Assign values for each category as follows  
data$num\_of\_pieces<-c("1"=1, "2" = 2, "3" = 3, "More than 3" = 4)[data$num\_of\_pieces]  
  
data$time\_range<-c("Twice a week"=1, "Every few months" = 2, "3-4 times a week" = 3, "Once a week" = 4, "Daily" = 5)[data$time\_range]  
  
data$avg\_amount<-c("One meal"=1, "Two meals" = 2)[data$avg\_amount]  
  
  
##Set their structure as numeric  
data$num\_of\_pieces <- as.numeric(data$num\_of\_pieces)  
data$time\_range <- as.numeric(data$time\_range)  
data$avg\_amount <- as.numeric(data$avg\_amount)  
  
##Creat new variable called "amount\_g" by taking the weight of piece of freshwater fish as 48.5g  
amount\_g <- data$time\_range \* data$avg\_amount \* data$avg\_amount \* 48.5  
  
  
##Add new variable to new data frame called "data\_1"  
data\_1 <- cbind(data, amount\_g)  
data\_1

## Division Gender Age Weight Academic\_performance  
## 1 rambewa female 10.0 28 Very Good  
## 2 pandukabhayapura male 5.0 21.4 Fair  
## 3 rambewa male 8.0 35 Excellent  
## 4 diviya udabendawewa male 5.0 18 Good  
## 5 sadamalgama male 4.0 6.5 Good  
## 6 sadamalgama female 7.0 21 Fair  
## 7 gonewa male 10.0 22 Fair  
## 8 sadamalgama female 5.0 13 Good  
## 9 gonewa female 9.0 24 Very Good  
## 10 gonewa male 8.0 20 Very Good  
## 11 gonewa male 7.0 18 Very Good  
## 12 gonewa male 8.0 17 Good  
## 13 gonewa male 8.0 18 Excellent  
## 14 gonewa female 8.0 14 Excellent  
## 15 gonewa male 10.0 30 Excellent  
## 16 pallankulama male 8.0 not mentioned Very Good  
## 17 sadamalgama male 4.0 7 Very Good  
## 18 gonewa male 7.0 24.7 Good  
## 19 gonewa female 3.0 10 Very Good  
## 20 walasmulla female 6.0 18 Very Good  
## 21 gonewa female 8.0 15 Very Good  
## 22 rambewa male 5.0 18 Very Good  
## 23 gonewa female 3.0 10 Good  
## 24 rambewa female 6.0 22 Very Good  
## 25 pallankulama female 6.0 18 Good  
## 26 pallankulama male 9.0 16 Fair  
## 27 pallankulama female 7.0 19 Fair  
## 28 pallankulama male 9.0 18 Excellent  
## 29 pallankulama male 7.0 16 Fair  
## 30 rambewa male 10.0 29 Fair  
## 31 pallankulama female 9.0 35 Good  
## 32 diviya udabendawewa male 9.0 19 Fair  
## 33 diviya udabendawewa male 9.0 15 Fair  
## 34 diviya udabendawewa male 9.0 30 Fair  
## 35 diviya udabendawewa male 6.0 17 Fair  
## 36 diviya udabendawewa female 10.0 25 Very Good  
## 37 thalgahawewa male 7.0 18 Excellent  
## 38 diviya udabendawewa male 8.0 not mentioned Good  
## 39 diviya udabendawewa male 7.0 16 Very Good  
## 40 diviya udabendawewa female 7.0 15 Fair  
## 41 diviya udabendawewa female 7.0 22 Good  
## 42 diviya udabendawewa female 7.0 17.5 Very Good  
## 43 diviya udabendawewa female 7.0 20 Excellent  
## 44 diviya udabendawewa male 8.0 32 Good  
## 45 diviya udabendawewa female 7.0 16.5 Good  
## 46 diviya udabendawewa female 8.0 15 Excellent  
## 47 diviya udabendawewa female 5.0 15 Very Good  
## 48 diviya udabendawewa male 10.0 21.6 Good  
## 49 diviya udabendawewa male 4.0 10.2 Good  
## 50 diviya udabendawewa male 10.0 22.2 Poor  
## 51 diviya udabendawewa male 5.0 16 Very Good  
## 52 thalgahawewa male 4.0 14.25 Very Good  
## 53 pallankulama male 7.0 33.5 Very Good  
## 54 rambewa female 7.0 not mentioned Fair  
## 55 pallankulama female 7.0 14 Fair  
## 56 pallankulama male 9.0 21.1 Good  
## 57 rambewa female 7.0 not mentioned Fair  
## 58 pallankulama male 9.0 27 Good  
## 59 thalgahawewa female 5.0 16 Good  
## 60 diviya udabendawewa male 4.5 13.3 Excellent  
## 61 thalgahawewa female 4.0 16.3 Excellent  
## 62 pallankulama female 9.0 25 Good  
## 63 pallankulama female 9.0 14.7 Excellent  
## 64 medawachchiya male 9.0 25 Good  
## 65 medawachchiya male 9.0 33 Good  
## 66 rambewa female 6.0 not mentioned Fair  
## 67 pallankulama female 6.0 14.8 Excellent  
## 68 pallankulama female 6.0 not mentioned Very Good  
## 69 pallankulama female 3.0 13.2 Very Good  
## 70 pallankulama female 4.0 14.2 Very Good  
## 71 pallankulama female 5.0 14.8 Good  
## 72 pallankulama female 5.0 13 Very Good  
## 73 pallankulama male 4.0 12.8 Excellent  
## 74 pallankulama male 5.0 12.6 Very Good  
## 75 pallankulama male 3.5 11 Fair  
## 76 diviya udabendawewa female 4.0 14.9 Good  
## 77 diviya udabendawewa male 4.0 14.5 Good  
## 78 diviya udabendawewa male 4.0 11.8 Good  
## 79 thalgahawewa female 4.0 15.5 Very Good  
## 80 diviya udabendawewa male 5.0 18.2 Good  
## 81 diviya udabendawewa male 5.0 14.8 Very Good  
## 82 diviya udabendawewa male 4.0 12.9 Excellent  
## 83 thalgahawewa female 5.0 14.4 Very Good  
## 84 diviya udabendawewa male 8.0 24 Fair  
## 85 thalgahawewa male 5.0 16 Very Good  
## 86 diviya udabendawewa male 9.0 not mentioned Fair  
## 87 diviya udabendawewa female 9.0 22.9 Good  
## 88 diviya udabendawewa female 9.0 24 Very Good  
## 89 diviya udabendawewa female 10.0 not mentioned Good  
## 90 gonewa male 6.0 20 Good  
## 91 gonewa female 9.0 43 Good  
## 92 gonewa female 6.0 17 Good  
## 93 gonewa female 8.0 26 Fair  
## 94 gonewa female 9.0 17 Excellent  
## 95 diviya udabendawewa female 9.0 20 not mentioned  
## 96 gonewa male 10.0 23 Good  
## 97 pallankulama male 7.0 21 Good  
## 98 gonewa male 7.0 16 Good  
## 99 ginikatuwewa male 6.0 15 Very Good  
## 100 gonewa male 9.0 23 Very Good  
## 101 ginikatuwewa female 10.0 35 Good  
## 102 gonewa male 8.0 21 Very Good  
## 103 gonewa female 8.0 20 Very Good  
## 104 gonewa male 6.0 16 Good  
## 105 gonewa male 6.0 not mentioned Good  
## 106 gonewa male 8.0 22 Very Good  
## 107 gonewa female 7.0 14 Good  
## 108 gonewa male 8.0 20 Very Good  
## 109 gonewa male 6.0 15.3 Very Good  
## 110 gonewa male 7.0 20 Fair  
## 111 gonewa male 9.0 33 Fair  
## 112 gonewa female 5.0 16 Good  
## 113 gonewa male 10.0 19.5 Good  
## 114 gonewa female 10.0 19 Good  
## 115 thalgahawewa male 8.0 16 Very Good  
## 116 gonewa female 10.0 27 not mentioned  
## 117 gonewa male 8.0 20 Very Good  
## 118 gonewa female 10.0 27 Very Good  
## 119 gonewa female 6.0 14 Very Good  
## 120 gonewa female 5.0 15 Good  
## 121 gonewa male 10.0 25 Good  
## 122 kandurugasdamana male 9.0 21 Fair  
## 123 medagama female 8.0 21.5 Good  
## 124 medagama male 8.0 19 Good  
## 125 rambewa male 8.0 23 Good  
## 126 medagama male 8.0 not mentioned Fair  
## 127 kandurugasdamana male 7.0 17 Very Good  
## 128 medagama male 8.0 28 Good  
## 129 medagama female 8.0 not mentioned Good  
## 130 medagama female 8.0 20 Good  
## 131 medagama female 3.0 not mentioned Very Good  
## 132 kandurugasdamana male 7.0 19 not mentioned  
## 133 medagama female 7.0 18 not mentioned  
## 134 kandurugasdamana male 7.0 17 Very Good  
## 135 kandurugasdamana male 7.0 17 Very Good  
## 136 medagama male 7.0 13.5 Excellent  
## 137 kandurugasdamana female 6.0 not mentioned not mentioned  
## 138 katupuliyankulama male 4.0 18.5 Fair  
## 139 sadamalgama female 4.0 12.5 Good  
## 140 katupuliyankulama female 5.0 17 Good  
## 141 medagama male 9.0 18 Fair  
## 142 medagama female 9.0 15 Good  
## 143 kandurugasdamana female 9.0 15 Good  
## 144 rambewa female 9.0 not mentioned Good  
## 145 kandurugasdamana male 8.0 21 Good  
## 146 medagama male 8.0 20 Good  
## 147 parasangaswewa male 5.0 13 Excellent  
## 148 parasangaswewa female 6.0 15 Very Good  
## 149 kandurugasdamana male 8.0 28 Very Good  
## 150 medagama female 8.0 18 Good  
## 151 medagama male 9.0 20 Fair  
## 152 medagama male 9.0 30 Fair  
## 153 medagama male 8.0 30 Very Good  
## 154 medagama female 8.0 18 Fair  
## 155 kandurugasdamana female 8.0 22 Good  
## 156 kandurugasdamana male 8.0 25 Good  
## 157 medagama female 9.0 21.5 not mentioned  
## 158 medagama female 9.0 not mentioned Good  
## 159 kandurugasdamana male 8.0 20 not mentioned  
## 160 medagama female 8.0 15 Fair  
## 161 medagama male 10.0 not mentioned Poor  
## 162 kandurugasdamana female 7.0 16 Very Good  
## 163 medagama female 7.0 23 Very Good  
## 164 kandurugasdamana male 6.0 24 Very Good  
## 165 katupuliyankulama male 4.0 16 Good  
## 166 katupuliyankulama female 5.0 14 not mentioned  
## 167 katupuliyankulama female 3.0 not mentioned Very Good  
## 168 ukkulankulama male 6.0 not mentioned Fair  
## 169 rambewa female 7.0 13 Excellent  
## 170 pandukabhayapura male 7.0 21 Good  
## 171 doramadalawa male 7.0 21 Good  
## 172 ukkulankulama male 9.0 32 Good  
## 173 sadamalgama male 10.0 40 Good  
## 174 pandukabhayapura female 10.0 28 Very Good  
## 175 doramadalawa male 10.0 30 Good  
## 176 rambewa female 10.0 20 Good  
## 177 sadamalgama female 8.0 not mentioned Good  
## 178 ukkulankulama female 9.0 19 Very Good  
## 179 rambewa male 10.0 22 Very Good  
## 180 katupuliyankulama male 10.0 21 Good  
## 181 pandukabhayapura male 8.0 23 Good  
## 182 rambewa male 8.0 not mentioned Good  
## 183 ukkulankulama female 7.0 20 Good  
## 184 rambewa female 7.0 20 Very Good  
## 185 pallankulama male 9.0 35 Fair  
## 186 sadamalgama male 6.0 12 Very Good  
## 187 doramadalawa female 6.0 18 Very Good  
## 188 sadamalgama male 9.0 24 Very Good  
## 189 doramadalawa female 10.0 31 Good  
## 190 rambewa male 10.0 15 Fair  
## 191 yaya 03 female 9.0 20 Fair  
## 192 pallankulama female 9.0 not mentioned Fair  
## 193 pandukabhayapura female 10.0 22 Good  
## 194 katupuliyankulama female 10.0 22 Good  
## 195 kandurugasdamana female 4.0 14.6 Very Good  
## 196 rambewa male 8.0 23 Excellent  
## 197 pandukabhayapura female 4.0 11 Good  
## 198 katupuliyankulama male 10.0 21 Good  
## 199 kandurugasdamana male 4.0 14.7 Poor  
## 200 kandurugasdamana female 4.0 12.5 Very Good  
## 201 kandurugasdamana female 5.0 14 Very Good  
## 202 pallankulama male 9.0 21 Very Good  
## 203 pandukabhayapura male 8.0 not mentioned Very Good  
## 204 mahadivulwewa male 9.0 28 Good  
## 205 kandurugasdamana male 9.0 20 not mentioned  
## 206 not mentioned male 9.0 not mentioned not mentioned  
## 207 mahawewa female 8.0 20.2 Very Good  
## 208 doramadalawa male 9.0 22 Good  
## 209 rambewa male 9.0 22 not mentioned  
## 210 katupuliyankulama male 9.0 21 Fair  
## 211 doramadalawa female 10.0 25 Fair  
## 212 kandurugasdamana female 5.0 15.5 Very Good  
## 213 kandurugasdamana female 5.0 not mentioned Very Good  
## 214 katupuliyankulama female 5.0 15.3 Good  
## 215 parasangaswewa female 4.0 15.5 Excellent  
## 216 katupuliyankulama female 4.0 14.1 not mentioned  
## 217 katupuliyankulama female 5.0 19 Very Good  
## 218 katupuliyankulama female 4.0 16.4 Excellent  
## 219 mankadawala female 4.0 not mentioned not mentioned  
## 220 parasangaswewa female 3.0 12.7 Good  
## 221 katupuliyankulama male 10.0 17 not mentioned  
## 222 kandurugasdamana female 3.0 10.3 not mentioned  
## 223 pandukabhayapura female 6.0 21 Good  
## 224 kandurugasdamana male 6.0 27 Good  
## 225 pandukabhayapura female 9.0 23 Very Good  
## 226 kandurugasdamana female 9.0 24 Very Good  
## 227 kandurugasdamana female 9.0 20 Very Good  
## 228 kandurugasdamana female 9.0 18 Good  
## 229 kandurugasdamana male 9.0 27 Good  
## 230 pandukabhayapura male 8.0 26 Very Good  
## 231 pandukabhayapura male 6.0 15 Excellent  
## 232 kandurugasdamana female 5.0 not mentioned not mentioned  
## 233 kandurugasdamana male 5.0 25 not mentioned  
## 234 pandukabhayapura male 6.0 not mentioned Excellent  
## 235 pandukabhayapura male 6.0 not mentioned Fair  
## 236 pandukabhayapura female 9.0 not mentioned Good  
## 237 kandurugasdamana female 6.0 17 Excellent  
## 238 kandurugasdamana female 7.0 21 Good  
## 239 kandurugasdamana female 7.0 18 Good  
## 240 pandukabhayapura male 7.0 19 Very Good  
## 241 pandukabhayapura female 7.0 17 Excellent  
## 242 kandurugasdamana female 7.0 25 Very Good  
## 243 kandurugasdamana female 7.0 17 Very Good  
## 244 pandukabhayapura female 7.0 15 Very Good  
## 245 kandurugasdamana male 7.0 20 Good  
## 246 kandurugasdamana male 7.0 19 Good  
## 247 kandurugasdamana male 10.0 22 Good  
## 248 kandurugasdamana female 7.0 17 Good  
## 249 pandukabhayapura male 6.0 not mentioned not mentioned  
## 250 mahawewa male 6.0 18 Good  
## 251 pandukabhayapura female 7.0 not mentioned Very Good  
## 252 pandukabhayapura male 6.0 17 Very Good  
## 253 kandurugasdamana male 6.0 21 not mentioned  
## 254 kandurugasdamana female 5.0 16 Very Good  
## 255 pandukabhayapura female 9.0 25 not mentioned  
## 256 kandurugasdamana female 10.0 24 Very Good  
## 257 kandurugasdamana female 10.0 19 Good  
## 258 kandurugasdamana male 9.0 not mentioned Very Good  
## 259 pandukabhayapura female 10.0 20 Fair  
## 260 mahawewa male 8.0 25 Good  
## 261 kandurugasdamana female 5.0 18 Very Good  
## 262 kandurugasdamana male 6.0 not mentioned Excellent  
## 263 kandurugasdamana female 6.0 not mentioned not mentioned  
## 264 kandurugasdamana female 10.0 24 Excellent  
## 265 kandurugasdamana female 8.0 22 Very Good  
## 266 katupuliyankulama male 8.0 20 Good  
## 267 kandurugasdamana female 8.0 not mentioned Very Good  
## 268 pandukabhayapura male 7.0 not mentioned Good  
## 269 pandukabhayapura female 10.0 25 Fair  
## 270 pandulagama female 10.0 27 Fair  
## 271 pandukabhayapura female 9.0 19 Excellent  
## 272 pandukabhayapura female 10.0 not mentioned Very Good  
## 273 pandukabhayapura male 4.0 16 Good  
## 274 kandurugasdamana female 5.0 21 Fair  
## 275 sadamalgama male 10.0 28 Good  
## 276 wahamalgollewa female 3.0 7 Good  
## 277 parasangaswewa female 5.0 14.5 Good  
## 278 katupuliyankulama female 4.0 15.8 Excellent  
## 279 katupuliyankulama female 4.0 12.6 Good  
## 280 sadamalgama female 8.0 21 Very Good  
## 281 sadamalgama male 9.0 25 Good  
## 282 sadamalgama male 9.0 28 Fair  
## 283 pallankulama male 9.0 16 Fair  
## 284 doramadalawa male 6.0 23 Good  
## 285 pallankulama female 6.0 16 Excellent  
## 286 katupuliyankulama female 3.0 15 Excellent  
## 287 katupuliyankulama female 5.0 18.1 Excellent  
## 288 katupuliyankulama male 4.0 14.8 Excellent  
## 289 katupuliyankulama female 4.0 14 Excellent  
## 290 katupuliyankulama male 4.0 13 Excellent  
## 291 katupuliyankulama male 4.0 12.8 Excellent  
## 292 parasangaswewa male 4.0 14.5 Good  
## 293 ihalakolongaswewa female 8.0 24 Very Good  
## 294 konakumbukwewa male 8.0 23 Very Good  
## 295 pinagama female 8.0 26 Very Good  
## 296 mahakumbukwewa female 8.0 20 Good  
## 297 ihalakolongaswewa female 7.0 17 Excellent  
## 298 ihalakolongaswewa male 7.0 16.5 Very Good  
## 299 sadamalgama male 4.0 14 not mentioned  
## 300 katupuliyankulama male 5.0 24.5 Good  
## 301 sadamalgama male 5.0 12.8 not mentioned  
## 302 sadamalgama male 5.0 not mentioned not mentioned  
## 303 weheragala male 8.0 not mentioned Good  
## 304 rambewa female 8.0 23 Very Good  
## 305 pallankulama female 9.0 16 Fair  
## 306 pallankulama male 10.0 not mentioned Very Good  
## 307 pallankulama male 7.0 not mentioned Poor  
## 308 pallankulama female 6.0 17 Good  
## 309 pallankulama male 6.0 not mentioned Very Good  
## 310 pallankulama male 6.0 16 Good  
## 311 rambewa female 5.0 13.5 Good  
## 312 pallankulama female 6.0 18 not mentioned  
## 313 pallankulama female 6.0 15 not mentioned  
## 314 pallankulama female 6.0 20 Good  
## 315 pallankulama female 6.0 21 Good  
## 316 pallankulama female 9.0 21 Very Good  
## 317 medawachchiya male 7.0 18 Good  
## 318 pallankulama female 8.0 19 not mentioned  
## 319 pallankulama female 8.0 16 Good  
## 320 pallankulama male 7.0 25 Very Good  
## 321 ihalakolongaswewa male 4.0 14 Good  
## 322 ihalakolongaswewa male 6.0 17 Good  
## 323 ihalakolongaswewa male 8.0 23 Good  
## 324 ihalakolongaswewa male 4.0 14.8 not mentioned  
## 325 wahamalgollewa male 7.0 14 Good  
## 326 galviragollewa female 10.0 21 Good  
## 327 galviragollewa female 5.0 12 Good  
## 328 ihalakolongaswewa male 6.0 18 Good  
## 329 ihalakolongaswewa female 9.0 not mentioned not mentioned  
## 330 ihalakolongaswewa male 7.0 13 not mentioned  
## 331 ihalakolongaswewa male 7.0 19 not mentioned  
## 332 pallankulama female 4.0 10.5 Good  
## 333 pallankulama female 4.0 11.7 Fair  
## 334 pallankulama female 4.0 12.5 Good  
## 335 pallankulama female 5.0 14 Very Good  
## 336 gonewa male 3.0 13.3 Good  
## 337 mahakanadarawa male 4.0 14 Fair  
## 338 rambewa male 5.0 15 Very Good  
## 339 pallankulama male 4.0 14 Excellent  
## 340 rambewa female 3.0 14.2 Good  
## 341 ukkulankulama male 4.0 15.5 Very Good  
## 342 ukkulankulama male 3.0 11 Good  
## 343 rambewa female 3.0 12.2 not mentioned  
## 344 nabadagaswewa male 3.0 11 Very Good  
## 345 rambewa male 3.0 10.9 not mentioned  
## 346 ikirigollewa female 5.0 14.5 Excellent  
## 347 rambewa male 5.0 17 Good  
## 348 rambewa male 4.0 not mentioned Good  
## 349 rambewa female 4.0 11 not mentioned  
## 350 pallankulama male 4.0 15 Very Good  
## 351 nabadagaswewa female 5.0 17 Good  
## 352 nabadagaswewa female 5.0 14.6 Very Good  
## 353 gonewa female 3.0 13.9 not mentioned  
## 354 nabadagaswewa male 3.0 13.2 Very Good  
## 355 sadamalgama male 5.0 16.6 Very Good  
## 356 nabadagaswewa male 4.0 15.9 Very Good  
## 357 rambewa male 5.0 15 Very Good  
## 358 rambewa male 5.0 16.3 Very Good  
## 359 galkandegama female 4.0 13.2 Good  
## 360 meemalwewa male 4.0 14 Very Good  
## 361 pallankulama male 5.0 not mentioned Excellent  
## 362 rambewa female 4.0 13.9 Very Good  
## 363 pallankulama female 4.0 15.2 Good  
## 364 sadamalgama female 4.0 14.1 Very Good  
## 365 sadamalgama male 3.0 15.6 Excellent  
## 366 nabadagaswewa female 4.0 13.2 Very Good  
## 367 ukkulankulama female 4.0 13.5 Very Good  
## 368 pallankulama female 5.0 22 Good  
## 369 sadamalgama male 4.0 19 Fair  
## 370 pandukabhayapura male 6.0 25 Excellent  
## 371 diviya udabendawewa male 7.0 31 Fair  
## 372 pallankulama female 8.0 33 Very Good  
## 373 rambewa female 5.0 20 Very Good  
## 374 gonewa male 3.0 12 Fair  
## 375 ukkulankulama female 7.0 31 Very Good  
## 376 weheragala male 8.0 25 Good  
## 377 sadamalgama male 7.0 31 Fair  
## 378 pallankulama female 7.0 not mentioned Fair  
## 379 sadamalgama female 8.0 32.5 Good  
## 380 kandurugasdamana female 5.0 19 Poor  
## 381 parasangaswewa female 4.0 15 not mentioned  
## 382 pallankulama female 5.0 13 Good  
## 383 sadamalgama male 4.0 13 Good  
## 384 pallankulama male 5.0 25 Poor  
## number\_of\_family\_members  
## 1 5  
## 2 4  
## 3 4  
## 4 7  
## 5 7  
## 6 5  
## 7 5  
## 8 4  
## 9 7  
## 10 5  
## 11 6  
## 12 4  
## 13 5  
## 14 5  
## 15 4  
## 16 7  
## 17 4  
## 18 6  
## 19 5  
## 20 not mentioned  
## 21 5  
## 22 4  
## 23 5  
## 24 4  
## 25 7  
## 26 5  
## 27 4  
## 28 4  
## 29 4  
## 30 4  
## 31 4  
## 32 4  
## 33 5  
## 34 7  
## 35 5  
## 36 6  
## 37 not mentioned  
## 38 6  
## 39 5  
## 40 3  
## 41 6  
## 42 5  
## 43 4  
## 44 4  
## 45 5  
## 46 4  
## 47 4  
## 48 6  
## 49 3  
## 50 4  
## 51 4  
## 52 6  
## 53 4  
## 54 4  
## 55 not mentioned  
## 56 5  
## 57 4  
## 58 5  
## 59 3  
## 60 5  
## 61 4  
## 62 5  
## 63 4  
## 64 6  
## 65 5  
## 66 4  
## 67 6  
## 68 5  
## 69 5  
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## 72 5  
## 73 6  
## 74 4  
## 75 6  
## 76 7  
## 77 4  
## 78 5  
## 79 5  
## 80 6  
## 81 5  
## 82 4  
## 83 5  
## 84 not mentioned  
## 85 not mentioned  
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## 108 not mentioned  
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## 115 6  
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## 193 5  
## 194 5  
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## 196 not mentioned  
## 197 5  
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## 199 4  
## 200 not mentioned  
## 201 4  
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## 203 not mentioned  
## 204 6  
## 205 4  
## 206 not mentioned  
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## 209 4  
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## 212 5  
## 213 4  
## 214 6  
## 215 4  
## 216 not mentioned  
## 217 4  
## 218 5  
## 219 not mentioned  
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## 229 not mentioned  
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## 243 6  
## 244 6  
## 245 3  
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## 253 4  
## 254 3  
## 255 not mentioned  
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## 268 5  
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## 273 4  
## 274 5  
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## 276 3  
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## 284 5  
## 285 9  
## 286 not mentioned  
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## 290 4  
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## 292 4  
## 293 4  
## 294 6  
## 295 3  
## 296 5  
## 297 6  
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## 299 not mentioned  
## 300 4  
## 301 4  
## 302 not mentioned  
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## 325 6  
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## 327 4  
## 328 3  
## 329 5  
## 330 5  
## 331 7  
## 332 6  
## 333 6  
## 334 4  
## 335 4  
## 336 4  
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## 338 4  
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## 341 4  
## 342 4  
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## 363 5  
## 364 4  
## 365 7  
## 366 6  
## 367 6  
## 368 7  
## 369 5  
## 370 3  
## 371 4  
## 372 6  
## 373 7  
## 374 4  
## 375 5  
## 376 4  
## 377 5  
## 378 not mentioned  
## 379 7  
## 380 4  
## 381 3  
## 382 3  
## 383 4  
## 384 7  
## animal\_protein  
## 1 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 2 Meat (Chicken,Beef, Pork, etc.), Eggs  
## 3 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 4 Dairy Products  
## 5 Dairy Products  
## 6 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 7 Meat (Chicken,Beef, Pork, etc.)  
## 8 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 9 Meat (Chicken,Beef, Pork, etc.)  
## 10 Meat (Chicken,Beef, Pork, etc.)  
## 11 Meat (Chicken,Beef, Pork, etc.)  
## 12 Meat (Chicken,Beef, Pork, etc.)  
## 13 Meat (Chicken,Beef, Pork, etc.)  
## 14 Meat (Chicken,Beef, Pork, etc.), Eggs  
## 15 Eggs  
## 16 Fish  
## 17 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 18 Fish, Eggs  
## 19 Dairy Products  
## 20 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 21 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 22 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 23 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 24 Meat (Chicken,Beef, Pork, etc.)  
## 25 Fish, Eggs  
## 26 Fish  
## 27 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 28 Dairy Products  
## 29 Fish  
## 30 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 31 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 32 Fish  
## 33 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 34 Fish  
## 35 Fish  
## 36 Fish  
## 37 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 38 Eggs  
## 39 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 40 Fish, Eggs  
## 41 Fish  
## 42 Fish  
## 43 Fish  
## 44 Fish  
## 45 Fish  
## 46 Fish  
## 47 Fish  
## 48 Fish, Eggs  
## 49 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 50 Fish, Eggs  
## 51 Fish  
## 52 Meat (Chicken,Beef, Pork, etc.), Fish  
## 53 Eggs  
## 54 Fish, Eggs  
## 55 Dairy Products  
## 56 Fish, Eggs  
## 57 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 58 Fish  
## 59 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Not mentioned   
## 60 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 61 Eggs  
## 62 Fish, Eggs  
## 63 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 64 Fish  
## 65 Meat (Chicken,Beef, Pork, etc.)  
## 66 Fish, Eggs  
## 67 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 68 Fish  
## 69 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 70 Fish  
## 71 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 72 Fish, Eggs  
## 73 Fish, Eggs  
## 74 Meat (Chicken,Beef, Pork, etc.), Fish  
## 75 Fish, Eggs  
## 76 Fish  
## 77 Eggs  
## 78 Fish  
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## 80 Fish  
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## 83 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 84 Fish, Eggs  
## 85 Eggs  
## 86 Eggs  
## 87 Fish  
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## 89 Eggs  
## 90 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 91 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 92 Eggs  
## 93 Fish  
## 94 Fish  
## 95 Fish  
## 96 Fish, Eggs  
## 97 Meat (Chicken,Beef, Pork, etc.)  
## 98 Eggs  
## 99 Fish  
## 100 Fish  
## 101 Fish  
## 102 Fish  
## 103 Fish  
## 104 Fish  
## 105 Fish  
## 106 Eggs  
## 107 Fish  
## 108 Fish  
## 109 Fish  
## 110 Fish  
## 111 Eggs  
## 112 Fish, Eggs, Dairy Products  
## 113 Fish  
## 114 Fish  
## 115 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
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## 117 Meat (Chicken,Beef, Pork, etc.), Fish  
## 118 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 119 Fish  
## 120 Fish  
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## 122 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 123 Eggs  
## 124 Eggs  
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## 129 Meat (Chicken,Beef, Pork, etc.)  
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## 131 Fish  
## 132 Fish  
## 133 Fish  
## 134 Fish, Eggs, Dairy Products  
## 135 Fish, Eggs  
## 136 Fish, Eggs  
## 137 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 138 Fish, Eggs  
## 139 Fish  
## 140 Eggs  
## 141 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
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## 143 Meat (Chicken,Beef, Pork, etc.), Fish  
## 144 Eggs  
## 145 Eggs  
## 146 Eggs  
## 147 Meat (Chicken,Beef, Pork, etc.)  
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## 149 Eggs  
## 150 Fish  
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## 153 Not mentioned  
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## 155 Fish  
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## 157 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 158 Fish, Eggs, Not mentioned   
## 159 Eggs  
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## 168 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
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## 173 Fish, Eggs, Dairy Products  
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## 177 Eggs  
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## 179 Fish, Eggs, Dairy Products  
## 180 Eggs  
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## 183 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
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## 190 Eggs  
## 191 Not mentioned  
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## 195 Eggs  
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## 197 Fish  
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## 202 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
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## 212 Eggs  
## 213 Fish  
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## 224 Eggs  
## 225 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
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## 230 Fish, Eggs  
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## 236 Meat (Chicken,Beef, Pork, etc.), Fish  
## 237 Fish  
## 238 Fish, Eggs  
## 239 Eggs  
## 240 Fish  
## 241 Fish  
## 242 Fish  
## 243 Fish  
## 244 Fish  
## 245 Eggs  
## 246 Meat (Chicken,Beef, Pork, etc.)  
## 247 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 248 Eggs  
## 249 Fish, Eggs  
## 250 Eggs  
## 251 Not mentioned  
## 252 Fish, Eggs  
## 253 Fish, Eggs  
## 254 Fish, Eggs  
## 255 Fish  
## 256 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 257 Fish  
## 258 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 259 Fish  
## 260 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 261 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 262 Eggs  
## 263 Fish, Eggs  
## 264 Fish  
## 265 Fish  
## 266 Eggs  
## 267 Eggs  
## 268 Fish  
## 269 Fish  
## 270 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 271 Fish  
## 272 Fish, Eggs  
## 273 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 274 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 275 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 276 Fish  
## 277 Meat (Chicken,Beef, Pork, etc.)  
## 278 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 279 Meat (Chicken,Beef, Pork, etc.)  
## 280 Meat (Chicken,Beef, Pork, etc.), Fish  
## 281 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 282 Not mentioned  
## 283 Meat (Chicken,Beef, Pork, etc.)  
## 284 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 285 Eggs  
## 286 Fish  
## 287 Fish  
## 288 Fish  
## 289 Fish  
## 290 Fish  
## 291 Fish  
## 292 Eggs  
## 293 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 294 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 295 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 296 Meat (Chicken,Beef, Pork, etc.), Fish  
## 297 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 298 Fish, Eggs, Dairy Products  
## 299 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 300 Fish, Eggs  
## 301 Fish, Dairy Products  
## 302 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 303 Fish, Eggs  
## 304 Fish  
## 305 Fish  
## 306 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 307 Fish  
## 308 Fish  
## 309 Fish  
## 310 Fish  
## 311 Fish  
## 312 Fish  
## 313 Fish  
## 314 Fish  
## 315 Meat (Chicken,Beef, Pork, etc.), Fish  
## 316 Fish  
## 317 Fish  
## 318 Fish  
## 319 Fish  
## 320 Fish  
## 321 Fish  
## 322 Fish  
## 323 Fish  
## 324 Fish  
## 325 Eggs  
## 326 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 327 Fish  
## 328 Fish  
## 329 Meat (Chicken,Beef, Pork, etc.)  
## 330 Fish  
## 331 Fish  
## 332 Fish  
## 333 Fish  
## 334 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 335 Meat (Chicken,Beef, Pork, etc.)  
## 336 Fish, Eggs, Dairy Products  
## 337 Eggs  
## 338 Meat (Chicken,Beef, Pork, etc.)  
## 339 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 340 Fish  
## 341 Fish, Eggs  
## 342 Fish  
## 343 Eggs  
## 344 Fish, Eggs  
## 345 Meat (Chicken,Beef, Pork, etc.), Fish  
## 346 Fish, Eggs  
## 347 Meat (Chicken,Beef, Pork, etc.)  
## 348 Eggs  
## 349 Meat (Chicken,Beef, Pork, etc.), Eggs  
## 350 Fish, Eggs, Dairy Products  
## 351 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 352 Meat (Chicken,Beef, Pork, etc.)  
## 353 Fish, Eggs  
## 354 Fish, Eggs  
## 355 Eggs  
## 356 Meat (Chicken,Beef, Pork, etc.), Fish, Dairy Products  
## 357 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 358 Fish  
## 359 Fish, Eggs  
## 360 Meat (Chicken,Beef, Pork, etc.), Fish  
## 361 Fish  
## 362 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 363 Fish  
## 364 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 365 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 366 Eggs  
## 367 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 368 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 369 Meat (Chicken,Beef, Pork, etc.), Eggs, Dairy Products  
## 370 Meat (Chicken,Beef, Pork, etc.), Eggs  
## 371 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 372 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 373 Meat (Chicken,Beef, Pork, etc.), Eggs, Dairy Products  
## 374 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 375 Fish  
## 376 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs  
## 377 Fish  
## 378 Meat (Chicken,Beef, Pork, etc.), Eggs, Dairy Products  
## 379 Fish  
## 380 Fish, Dairy Products  
## 381 Fish, Eggs  
## 382 Meat (Chicken,Beef, Pork, etc.), Fish, Eggs, Dairy Products  
## 383 Meat (Chicken,Beef, Pork, etc.), Eggs  
## 384 Eggs  
## seafood\_availability eat\_freshwater\_fish fish\_type  
## 1 No Yes Tilapia  
## 2 Yes Yes Not mentioned  
## 3 No Yes Loolla  
## 4 Maybe No Not mentioned  
## 5 Yes Yes Tilapia   
## 6 Maybe Yes Tilapia   
## 7 No Yes Tilapia   
## 8 No Yes Tilapia   
## 9 No No Not mentioned  
## 10 No Yes Thilapiya  
## 11 No Yes Thilapiya  
## 12 No Yes THILAPIYA  
## 13 No Yes Thilapiya  
## 14 No Yes Thilapiya  
## 15 Maybe Yes All  
## 16 No Yes Korali, Loolla, Hunga  
## 17 No No Not mentioned  
## 18 Yes No Not mentioned  
## 19 Yes No Not mentioned  
## 20 Yes Yes Korali  
## 21 No No Not mentioned  
## 22 No Yes Tilapia   
## 23 Yes Yes Talapath  
## 24 Yes Yes Thilapi  
## 25 No Yes Loolla  
## 26 No Yes Tilapia   
## 27 Yes Yes Not mentioned  
## 28 No Yes Loolla, Korali  
## 29 No Yes Korali  
## 30 Yes Yes Not mentioned  
## 31 No Yes Not mentioned  
## 32 Yes Yes Not mentioned  
## 33 No Yes Tilapia   
## 34 No Yes Loolla   
## 35 No Yes Tilapia   
## 36 No Yes Tilapia   
## 37 No Yes Not mentioned  
## 38 No Yes Tilapia   
## 39 Yes Yes Not mentioned  
## 40 Maybe Yes Theppili   
## 41 Yes Yes All  
## 42 Yes Yes All  
## 43 No Yes Loolla   
## 44 No Yes Tilapia   
## 45 Yes Yes Chicken  
## 46 Yes Yes Loolla   
## 47 No Yes Theppili   
## 48 Yes Yes Theppili   
## 49 Yes Yes Tilapia   
## 50 Yes Yes Not mentioned  
## 51 No Yes Tilapia   
## 52 Yes Yes Theppili   
## 53 Yes Yes Tilapia   
## 54 Yes Yes Tilapia   
## 55 No Yes Theppili   
## 56 No Yes Kawayya  
## 57 Yes Yes Not mentioned  
## 58 No Yes Tilapia   
## 59 No Yes Not mentioned  
## 60 Yes Yes Loolla,Tilapia   
## 61 No Yes Theppili   
## 62 Yes Yes Not mentioned  
## 63 No Yes Hunga  
## 64 No Yes Loolla   
## 65 No Yes Loolla   
## 66 Yes Yes Tilapia   
## 67 No Yes Loolla   
## 68 No Yes Not mentioned  
## 69 Yes Yes Tilapia   
## 70 No Yes Not mentioned  
## 71 Yes Yes Not mentioned  
## 72 Yes Yes Not mentioned  
## 73 Yes Yes Tilapia   
## 74 No Yes Theppili   
## 75 Yes Yes Not mentioned  
## 76 No Yes Theppili   
## 77 No Yes Theppili   
## 78 No Yes Tilapia   
## 79 No Yes Loolla   
## 80 No Yes Tilapia   
## 81 No Yes Theppili   
## 82 Yes Yes Tilapia   
## 83 Yes Yes Tilapia   
## 84 No Yes Not mentioned  
## 85 Yes Yes Not mentioned  
## 86 Yes No Not mentioned  
## 87 No Yes Not mentioned  
## 88 Yes Yes Loolla , Theppili   
## 89 No Yes Tilapia   
## 90 Yes Yes Loolla   
## 91 No Yes Tilapia   
## 92 Yes Yes Tilapia   
## 93 Yes Yes Tilapia   
## 94 Yes Yes Tilapia   
## 95 No Yes Tilapia   
## 96 Yes Yes Not mentioned  
## 97 No Yes Tilapia   
## 98 No Yes Theppili   
## 99 Yes Yes Not mentioned  
## 100 Yes Yes Theppili   
## 101 Yes Yes Not mentioned  
## 102 Yes Yes Not mentioned  
## 103 Yes Yes Not mentioned  
## 104 Yes Yes Tilapia   
## 105 Yes Yes Tilapia   
## 106 Yes Yes Tilapia   
## 107 No Yes Tilapia   
## 108 Yes Yes Not mentioned  
## 109 Yes Yes Not mentioned  
## 110 Yes Yes Korali  
## 111 No Yes Not mentioned  
## 112 Yes Yes Tilapia   
## 113 No Yes Not mentioned  
## 114 Yes Yes Not mentioned  
## 115 No Yes Theppili   
## 116 No Yes Tilapia   
## 117 Yes Yes Not mentioned  
## 118 Yes Yes Not mentioned  
## 119 Yes Yes Loolla   
## 120 No Yes Not mentioned  
## 121 Yes Yes Tilapia   
## 122 Yes No Not mentioned  
## 123 No Yes Not mentioned  
## 124 Yes Yes Not mentioned  
## 125 Yes No Not mentioned  
## 126 No Yes Tilapia   
## 127 No Yes Tilapia   
## 128 No Yes Tilapia   
## 129 Yes Yes Tilapia   
## 130 Yes Yes Loolla   
## 131 Yes Yes Loolla and Theppili   
## 132 No Yes Loolla   
## 133 No Yes Not mentioned  
## 134 No Yes Not mentioned  
## 135 No Yes Not mentioned  
## 136 Yes Yes Tilapia   
## 137 No Yes Not mentioned  
## 138 Yes Yes Not mentioned  
## 139 Yes Yes Theppili   
## 140 No Yes Not mentioned  
## 141 Yes Yes Tilapia, Loolla, Pethiya   
## 142 Yes Yes Tilapia   
## 143 Yes Yes Not mentioned  
## 144 No Yes Not mentioned  
## 145 No Yes Tilapia   
## 146 No Yes Lellu  
## 147 No No Not mentioned  
## 148 No Yes Theppili   
## 149 No Yes Tilapia, Loolla   
## 150 No Yes Theppili   
## 151 No Yes Korali  
## 152 Yes Yes Not mentioned  
## 153 Yes Yes Not mentioned  
## 154 Yes Yes Tilapia, Loolla   
## 155 No Yes Tilapia  
## 156 No Yes Not mentioned  
## 157 Yes Yes Not mentioned  
## 158 No Yes Not mentioned  
## 159 No Yes Not mentioned  
## 160 No Yes Not mentioned  
## 161 No Yes Loolla  
## 162 Yes Yes Not mentioned  
## 163 No Yes Korali   
## 164 No Yes Tilapia  
## 165 Yes Yes Not mentioned  
## 166 Yes Yes Eggs  
## 167 Yes Yes Theppili   
## 168 Yes No Not mentioned  
## 169 No Yes Not mentioned  
## 170 Yes Yes Not mentioned  
## 171 No Yes Theppili   
## 172 No Yes Not mentioned  
## 173 Yes Yes Theppili  
## 174 No Yes Loolla,Theppili   
## 175 No Yes Tilapia  
## 176 No Yes Not mentioned  
## 177 No Yes Loolla   
## 178 No Yes Theppili,Loolla   
## 179 Yes Yes Loolla   
## 180 No No Not mentioned  
## 181 Maybe Yes Not specified spp.  
## 182 Maybe Yes Theppili   
## 183 No Yes Not mentioned  
## 184 No Yes Not mentioned  
## 185 No Yes Not mentioned  
## 186 Yes Yes Not mentioned  
## 187 Yes Yes Theppili  
## 188 Yes Yes Loolla   
## 189 No Yes Tilapia   
## 190 Yes Yes Not mentioned  
## 191 No Yes Theppili   
## 192 No Yes Loolla   
## 193 No Yes Tilapia   
## 194 Yes Yes Not mentioned  
## 195 No Yes Not mentioned  
## 196 Yes Yes Not mentioned  
## 197 No Yes Not mentioned  
## 198 Yes Yes Theppili   
## 199 Not mentioned Yes Not mentioned  
## 200 Yes Yes Tilapia  
## 201 No Yes Not mentioned  
## 202 Yes Yes Theppili  
## 203 No Yes Tilapia   
## 204 Yes Yes Tilapia   
## 205 No Yes Not mentioned  
## 206 No Yes Korali  
## 207 No Yes Not mentioned  
## 208 No Yes Tilapia   
## 209 Yes Yes Not mentioned  
## 210 Yes Yes Theppili   
## 211 Maybe Yes Theppili   
## 212 Yes Yes Theppili   
## 213 Yes Yes Tilapia   
## 214 No Yes Theppili   
## 215 Yes Yes Tilapia   
## 216 No Yes Theppili   
## 217 Yes Yes Not mentioned  
## 218 Yes Yes Tilapia   
## 219 Yes Yes Not mentioned  
## 220 Yes Yes Korali   
## 221 Yes No Not mentioned  
## 222 No Yes Not mentioned  
## 223 No Yes Not mentioned  
## 224 No Yes Not mentioned  
## 225 Maybe Yes Kawayya  
## 226 Yes No Not mentioned  
## 227 Yes No Not mentioned  
## 228 No Yes Tilapia   
## 229 Yes Yes Not mentioned  
## 230 Yes Yes Loolla   
## 231 No Yes Theppili   
## 232 No Yes Tilapia   
## 233 No Yes Tilapia   
## 234 No Yes Loolla   
## 235 Yes Yes Not mentioned  
## 236 No Yes Loolla   
## 237 No Yes Theppili   
## 238 Yes Yes Theppili   
## 239 No Yes Not mentioned  
## 240 Yes Yes Not mentioned  
## 241 Yes Yes Not mentioned  
## 242 Yes Yes Not mentioned  
## 243 Yes Yes Tilapia   
## 244 No Yes Theppili   
## 245 No No Not mentioned  
## 246 No Yes Loolla   
## 247 No No Not mentioned  
## 248 No No Not mentioned  
## 249 Yes Yes Not mentioned  
## 250 No Yes Not mentioned  
## 251 No No Not mentioned  
## 252 Yes Yes Loolla   
## 253 No Yes Tilapia   
## 254 Yes No Not mentioned  
## 255 Yes Yes Not mentioned  
## 256 Yes Yes Not mentioned  
## 257 Yes Yes Tilapia   
## 258 No Yes Tilapia   
## 259 Yes Yes Not mentioned  
## 260 No Yes Loolla   
## 261 Yes Yes Not mentioned  
## 262 Yes Yes Not mentioned  
## 263 No Yes Tilapia   
## 264 No Yes Theppili   
## 265 Yes Yes Not mentioned  
## 266 No Yes Not mentioned  
## 267 Yes Yes Tilapia   
## 268 No Yes Not mentioned  
## 269 No Yes Not mentioned  
## 270 No No Not mentioned  
## 271 No Yes Tilapia   
## 272 No Yes Not mentioned  
## 273 No No Not mentioned  
## 274 No Yes Tilapia   
## 275 No Yes Theppili   
## 276 Yes Yes Loolla   
## 277 Yes Yes Theppili   
## 278 No Yes Theppili   
## 279 Yes Yes Theppili   
## 280 No Yes Tilapia   
## 281 Yes Yes Theppili   
## 282 Yes No Not mentioned  
## 283 Yes Yes Theppili   
## 284 No Yes Tilapia   
## 285 Yes Yes Theppili   
## 286 No Yes Korali   
## 287 No Yes Not mentioned  
## 288 No Yes Not mentioned  
## 289 Yes Yes Not mentioned  
## 290 No Yes Not mentioned  
## 291 No Yes Not mentioned  
## 292 Yes Yes Loolla   
## 293 Yes Yes Not mentioned  
## 294 Yes Yes Not mentioned  
## 295 Yes Yes Not mentioned  
## 296 Yes Yes Not mentioned  
## 297 No Yes Not mentioned  
## 298 Yes Yes Korali   
## 299 Yes Yes Not mentioned  
## 300 Yes Yes Korali   
## 301 Yes Yes Kawayya   
## 302 Yes Yes Loolla   
## 303 No Yes Loolla   
## 304 Yes Yes Loolla   
## 305 Yes Yes Not mentioned  
## 306 Yes Yes Not mentioned  
## 307 No Yes Not mentioned  
## 308 Yes Yes Korali   
## 309 Yes Yes Theppili   
## 310 No Yes Not mentioned  
## 311 Yes Yes Loolla   
## 312 Yes Yes Not mentioned  
## 313 Yes Yes Tilapia   
## 314 Yes Yes Not mentioned  
## 315 Yes Yes Korali   
## 316 Yes Yes Korali   
## 317 No Yes Loolla   
## 318 No Yes Not mentioned  
## 319 Yes Yes Not mentioned  
## 320 Yes Yes Loolla   
## 321 No Yes Tilapia   
## 322 No Yes Tilapia   
## 323 No Yes Tilapia   
## 324 No Yes Theppili   
## 325 Yes Yes Theppili   
## 326 Yes Yes Loolla   
## 327 Yes Yes Tilapia   
## 328 Yes Yes Tilapia   
## 329 No No Not mentioned  
## 330 No Yes Kawayya   
## 331 Yes Yes Not mentioned  
## 332 Yes Yes Not mentioned  
## 333 Yes Yes Theppili   
## 334 No Yes Not mentioned  
## 335 Yes Yes Not mentioned  
## 336 Yes Yes Tilapia   
## 337 No Yes Tilapia   
## 338 No Yes Not mentioned  
## 339 Yes Yes Theppili   
## 340 No Yes Not mentioned  
## 341 Yes Yes Korali   
## 342 Yes Yes Not mentioned  
## 343 No Yes Tilapia   
## 344 Maybe Yes Tilapia & Theppili   
## 345 Yes Yes Not mentioned  
## 346 Yes Yes Korali   
## 347 Yes Yes Theppili   
## 348 Yes Yes Tilapia   
## 349 Yes Yes Tilapia   
## 350 Yes Yes Tilapia   
## 351 No Yes All  
## 352 Yes Yes Tilapia   
## 353 No Yes Tilapia   
## 354 No Yes Loolla   
## 355 Yes Yes Theppili   
## 356 Yes Yes Not mentioned  
## 357 Yes Yes Not mentioned  
## 358 No Yes Not mentioned  
## 359 Maybe Yes Theppili,Loolla,Tilapia   
## 360 Maybe Yes All  
## 361 Yes Yes Not mentioned  
## 362 Maybe Yes Loolla   
## 363 No Yes Theppili   
## 364 Yes Yes Tilapia   
## 365 No Yes Not mentioned  
## 366 No Yes Korali   
## 367 Yes Yes Tilapia   
## 368 No Yes Korali   
## 369 No No Not mentioned  
## 370 No No Not mentioned  
## 371 No Yes Tilapia   
## 372 No Yes Korali   
## 373 No No Not mentioned  
## 374 No Yes Not mentioned  
## 375 No Yes Kawayya   
## 376 No Yes Hunga   
## 377 No Yes Not mentioned  
## 378 No No Not mentioned  
## 379 Yes Yes Not mentioned  
## 380 No No Not mentioned  
## 381 No Yes Not mentioned  
## 382 No Yes Not mentioned  
## 383 No No Not mentioned  
## 384 Maybe No Not mentioned  
## reason  
## 1   
## 2   
## 3   
## 4 Dislike of the taste or texture  
## 5   
## 6   
## 7   
## 8   
## 9 Dislike of the taste or texture  
## 10   
## 11   
## 12 Dislike of the taste or texture  
## 13   
## 14   
## 15   
## 16   
## 17 Presence of so many bones  
## 18 Dislike of the taste or texture, Unpleasant smell, Presence of so many bones, Presence of so many bones  
## 19 Dislike of the taste or texture  
## 20   
## 21 Dislike of the taste or texture, Unpleasant smell  
## 22   
## 23   
## 24   
## 25   
## 26   
## 27   
## 28   
## 29   
## 30 Dislike of the taste or texture  
## 31   
## 32   
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## 41   
## 42 Dislike of the taste or texture  
## 43   
## 44   
## 45 Presence of so many bones  
## 46   
## 47   
## 48 Presence of so many bones  
## 49   
## 50 Presence of so many bones  
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## 56   
## 57 Dislike of the taste or texture  
## 58   
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## 67   
## 68 Presence of so many bones  
## 69   
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## 85   
## 86 Dislike of the taste or texture  
## 87   
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## 117   
## 118 Other family members don’t like  
## 119   
## 120   
## 121   
## 122 Presence of so many bones  
## 123 Presence of so many bones  
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## 125 Presence of so many bones  
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## 138   
## 139   
## 140   
## 141 Presence of so many bones  
## 142 Other family members don’t like  
## 143 Presence of so many bones  
## 144   
## 145   
## 146   
## 147 Unpleasant smell, Presence of so many bones  
## 148   
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## 165   
## 166 Presence of so many bones  
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## 168 Presence of so many bones  
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## 178   
## 179 Unpleasant smell, Presence of so many bones  
## 180 Dislike of the taste or texture  
## 181   
## 182   
## 183   
## 184   
## 185 Dislike of the taste or texture  
## 186 Dislike of the taste or texture  
## 187   
## 188   
## 189   
## 190 Presence of so many bones  
## 191   
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## 221 Presence of so many bones  
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## 244   
## 245 Dislike of the taste or texture  
## 246   
## 247 Allergies  
## 248   
## 249   
## 250   
## 251 Unpleasant smell  
## 252   
## 253   
## 254 Unpleasant smell  
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## 270 Unpleasant smell  
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## 272   
## 273 Unpleasant smell  
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## 281   
## 282 Dislike of the taste or texture  
## 283   
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## 328   
## 329 Unpleasant smell  
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## 368   
## 369 Unpleasant smell  
## 370 Presence of so many bones  
## 371   
## 372   
## 373 Allergies  
## 374   
## 375   
## 376   
## 377   
## 378 Presence of so many bones  
## 379   
## 380 Dislike of the taste or texture  
## 381   
## 382   
## 383 Unpleasant smell  
## 384 Dislike of the taste or texture, Unpleasant smell, Presence of so many bones  
## improve\_consumption  
## 1 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 2   
## 3 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 4 Serve with their favorite foods  
## 5 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 6   
## 7 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 8 Try different recipes with different flavors  
## 9 Involving child in choosing or cooking the fish  
## 10 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 11 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 12 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 13   
## 14 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 15 Try different recipes with different flavors  
## 16 Serve with their favorite foods  
## 17 Serve with their favorite foods  
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## 20 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Try different recipes with different flavors  
## 21   
## 22 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 23 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Serve with their favorite foods, Try different recipes with different flavors  
## 24 Try different recipes with different flavors  
## 25 Try different recipes with different flavors  
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## 28 Try different recipes with different flavors  
## 29   
## 30 Explaining the benefits of eating fish  
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## 33 Serve with their favorite foods  
## 34 Serve with their favorite foods  
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## 37 Explaining the benefits of eating fish  
## 38 Explaining the benefits of eating fish  
## 39 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 40 Explaining the benefits of eating fish  
## 41 Explaining the benefits of eating fish  
## 42 Try different recipes with different flavors  
## 43 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 44   
## 45 Serve with their favorite foods  
## 46 Serve with their favorite foods  
## 47 Serve with their favorite foods  
## 48 Explaining the benefits of eating fish  
## 49 Explaining the benefits of eating fish  
## 50 Explaining the benefits of eating fish  
## 51 Serve with their favorite foods  
## 52 Serve with their favorite foods, Involving child in choosing or cooking the fish  
## 53 Serve with their favorite foods  
## 54 Explaining the benefits of eating fish  
## 55   
## 56 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Involving child in choosing or cooking the fish  
## 57 Explaining the benefits of eating fish  
## 58   
## 59 Serve with their favorite foods, Try different recipes with different flavors  
## 60 Explaining the benefits of eating fish  
## 61 Try different recipes with different flavors  
## 62   
## 63 Try different recipes with different flavors, Explaining the benefits of eating fish  
## 64 Explaining the benefits of eating fish  
## 65 Explaining the benefits of eating fish  
## 66 Explaining the benefits of eating fish  
## 67 Involving child in choosing or cooking the fish  
## 68 Try different recipes with different flavors  
## 69 Explaining the benefits of eating fish  
## 70 Try different recipes with different flavors  
## 71 Serve with their favorite foods  
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## 73 Try different recipes with different flavors  
## 74 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Try different recipes with different flavors  
## 75   
## 76 Serve with their favorite foods  
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## 78 Serve with their favorite foods  
## 79 Explaining the benefits of eating fish  
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## 81 Serve with their favorite foods  
## 82 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Try different recipes with different flavors, Explaining the benefits of eating fish  
## 83 Explaining the benefits of eating fish  
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## 85 Explaining the benefits of eating fish  
## 86 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
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## 89 Explaining the benefits of eating fish  
## 90 Serve with their favorite foods  
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## 93 Explaining the benefits of eating fish  
## 94 Explaining the benefits of eating fish  
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## 99 Try different recipes with different flavors  
## 100 Try different recipes with different flavors  
## 101 Explaining the benefits of eating fish  
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## 106 Serve with their favorite foods  
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## 109 Explaining the benefits of eating fish  
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## 112 Serve with their favorite foods, Try different recipes with different flavors, Explaining the benefits of eating fish  
## 113 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 114 Explaining the benefits of eating fish  
## 115 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 116 Try different recipes with different flavors  
## 117 Explaining the benefits of eating fish  
## 118 Serve with their favorite foods, Explaining the benefits of eating fish  
## 119 Try different recipes with different flavors  
## 120 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 121 Serve with their favorite foods, Try different recipes with different flavors, Explaining the benefits of eating fish  
## 122 Serve with their favorite foods, Involving child in choosing or cooking the fish, Try different recipes with different flavors, Explaining the benefits of eating fish  
## 123 Serve with their favorite foods  
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## 125 Serve with their favorite foods  
## 126 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 127 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Serve with their favorite foods, Explaining the benefits of eating fish  
## 128   
## 129   
## 130 Involving child in choosing or cooking the fish  
## 131 Try different recipes with different flavors  
## 132 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 133 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 134 Try different recipes with different flavors  
## 135 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 136 Serve with their favorite foods  
## 137 Explaining the benefits of eating fish  
## 138 Serve with their favorite foods  
## 139 Try different recipes with different flavors  
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## 141 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 142 Serve with their favorite foods  
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## 144 Try different recipes with different flavors  
## 145 Explaining the benefits of eating fish  
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## 148 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
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## 150 Explaining the benefits of eating fish  
## 151 Serve with their favorite foods  
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## 154 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 155 Explaining the benefits of eating fish  
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## 161 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Involving child in choosing or cooking the fish, Try different recipes with different flavors  
## 162 Explaining the benefits of eating fish  
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## 166 Serve with their favorite foods  
## 167 Serve with their favorite foods  
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## 169 Involving child in choosing or cooking the fish  
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## 171 Try different recipes with different flavors, Explaining the benefits of eating fish  
## 172 Explaining the benefits of eating fish  
## 173 Explaining the benefits of eating fish  
## 174 Explaining the benefits of eating fish  
## 175 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Involving child in choosing or cooking the fish  
## 176 Involving child in choosing or cooking the fish  
## 177   
## 178 Explaining the benefits of eating fish  
## 179 Explaining the benefits of eating fish  
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## 183 Involving child in choosing or cooking the fish, Explaining the benefits of eating fish  
## 184 Explaining the benefits of eating fish  
## 185 Try different recipes with different flavors  
## 186 Explaining the benefits of eating fish  
## 187 Serve with their favorite foods  
## 188 Serve with their favorite foods  
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## 190 Serve with their favorite foods  
## 191 Try different recipes with different flavors, Explaining the benefits of eating fish  
## 192 Giving punishment   
## 193 Explaining the benefits of eating fish  
## 194 Serve with their favorite foods  
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## 196 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 197 Serve with their favorite foods  
## 198 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
## 199 Involving child in choosing or cooking the fish  
## 200 Try different recipes with different flavors  
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## 202 Explaining the benefits of eating fish  
## 203 Involving child in choosing or cooking the fish  
## 204 Try different recipes with different flavors  
## 205 Serve with their favorite foods  
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## 208 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Involving child in choosing or cooking the fish  
## 209 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Try different recipes with different flavors, Explaining the benefits of eating fish  
## 210 Serve with their favorite foods  
## 211 Explaining the benefits of eating fish  
## 212 Involving child in choosing or cooking the fish  
## 213 Try different recipes with different flavors  
## 214 Explaining the benefits of eating fish  
## 215 Serve with their favorite foods, Try different recipes with different flavors, Explaining the benefits of eating fish  
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## 217 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
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## 231 Serve with their favorite foods  
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## 237 Try different recipes with different flavors  
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## 240 Explaining the benefits of eating fish  
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## 252 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
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## 270 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
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## 273 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Serve with their favorite foods, Try different recipes with different flavors  
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## 278 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Try different recipes with different flavors  
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## 281 Explaining the benefits of eating fish  
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## 315 Explaining the benefits of eating fish  
## 316 Explaining the benefits of eating fish  
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## 329 Explaining the benefits of eating fish  
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## 344 Serve with their favorite foods  
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## 378 Serve with their favorite foods  
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## 380 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches)  
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## 383 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Serve with their favorite foods, Try different recipes with different flavors  
## 384 Cook in different ways to make it more appealing (Fish cutlets, Fish patties, Fish biriyani, Fish sandwiches), Try different recipes with different flavors  
## reason\_to\_prefer  
## 1 Awareness of nutritional quality  
## 2 As a food habit  
## 3 Milder taste  
## 4   
## 5 As a food habit  
## 6 Milder taste, As a food habit  
## 7 Milder taste  
## 8 Milder taste  
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## 10 Milder taste  
## 11 Milder taste  
## 12 Milder taste  
## 13 Milder taste, Texture  
## 14 Milder taste, Texture  
## 15 As a food habit  
## 16 Milder taste, Texture  
## 17   
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## 19   
## 20 Milder taste  
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## 22 As a food habit  
## 23 Awareness of nutritional quality  
## 24 As a food habit  
## 25 Awareness of nutritional quality  
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## 27 Awareness of nutritional quality  
## 28 Awareness of nutritional quality  
## 29 Awareness of nutritional quality  
## 30 Awareness of nutritional quality  
## 31 As a food habit  
## 32 Awareness of nutritional quality  
## 33 Milder taste  
## 34 As a food habit  
## 35 As a food habit  
## 36 Awareness of nutritional quality  
## 37 Awareness of nutritional quality  
## 38 Awareness of nutritional quality  
## 39 Milder taste  
## 40 As a food habit  
## 41 Awareness of nutritional quality  
## 42 As a food habit  
## 43 Awareness of nutritional quality  
## 44 As a food habit  
## 45 Awareness of nutritional quality  
## 46 Milder taste  
## 47 As a food habit  
## 48 Awareness of nutritional quality  
## 49 As a food habit  
## 50 Awareness of nutritional quality  
## 51 Milder taste  
## 52 Milder taste  
## 53 Awareness of nutritional quality  
## 54 Awareness of nutritional quality  
## 55 Awareness of nutritional quality  
## 56 Milder taste, Awareness of nutritional quality  
## 57 Awareness of nutritional quality  
## 58 Milder taste  
## 59 As a food habit, Awareness of nutritional quality  
## 60 Awareness of nutritional quality  
## 61 Milder taste  
## 62 Milder taste  
## 63 Milder taste, Awareness of nutritional quality  
## 64 Awareness of nutritional quality  
## 65 Awareness of nutritional quality  
## 66 Awareness of nutritional quality  
## 67 Milder taste  
## 68 Texture  
## 69 Awareness of nutritional quality  
## 70 Texture  
## 71 Awareness of nutritional quality  
## 72 Milder taste  
## 73 As a food habit  
## 74 As a food habit  
## 75 Milder taste  
## 76 Milder taste  
## 77 Milder taste  
## 78 Milder taste  
## 79 Awareness of nutritional quality  
## 80 As a food habit  
## 81 As a food habit  
## 82 Milder taste  
## 83 Milder taste  
## 84 Awareness of nutritional quality  
## 85 Awareness of nutritional quality  
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## 87 Awareness of nutritional quality  
## 88 Awareness of nutritional quality  
## 89 Awareness of nutritional quality  
## 90 As a food habit  
## 91 As a food habit  
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## 95 As a food habit  
## 96 As a food habit  
## 97 As a food habit  
## 98 As a food habit  
## 99 Awareness of nutritional quality  
## 100 Awareness of nutritional quality  
## 101 Awareness of nutritional quality  
## 102 Milder taste  
## 103 Milder taste  
## 104 Milder taste  
## 105 Milder taste  
## 106 Awareness of nutritional quality  
## 107 Milder taste  
## 108 Milder taste  
## 109 As a food habit  
## 110 Milder taste  
## 111 Milder taste  
## 112 Milder taste, As a food habit, Awareness of nutritional quality  
## 113 Milder taste  
## 114 As a food habit  
## 115 As a food habit  
## 116 Milder taste  
## 117 Awareness of nutritional quality  
## 118 Awareness of nutritional quality  
## 119 As a food habit  
## 120 Awareness of nutritional quality  
## 121 Milder taste  
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## 123 As a food habit  
## 124 As a food habit  
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## 126 Texture  
## 127 As a food habit  
## 128 Milder taste  
## 129 As a food habit  
## 130 Milder taste  
## 131 Awareness of nutritional quality  
## 132 Milder taste  
## 133 Milder taste  
## 134 As a food habit  
## 135 Milder taste  
## 136 As a food habit  
## 137 As a food habit  
## 138 As a food habit  
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## 141 Milder taste  
## 142 As a food habit  
## 143 Awareness of nutritional quality  
## 144 Awareness of nutritional quality  
## 145 As a food habit  
## 146 As a food habit  
## 147   
## 148 Milder taste  
## 149 As a food habit  
## 150 Awareness of nutritional quality  
## 151 Milder taste  
## 152 As a food habit  
## 153 As a food habit  
## 154 Awareness of nutritional quality  
## 155 Awareness of nutritional quality  
## 156 Awareness of nutritional quality  
## 157 As a food habit  
## 158 Not mentioned   
## 159 Milder taste  
## 160 As a food habit  
## 161 Milder taste  
## 162 Awareness of nutritional quality  
## 163 Milder taste  
## 164 Awareness of nutritional quality  
## 165 As a food habit  
## 166 Awareness of nutritional quality  
## 167 As a food habit  
## 168   
## 169 Texture  
## 170 Milder taste  
## 171 As a food habit  
## 172 Awareness of nutritional quality  
## 173 Awareness of nutritional quality  
## 174 Awareness of nutritional quality  
## 175 Milder taste, As a food habit  
## 176 Texture  
## 177 As a food habit  
## 178 Not mentioned   
## 179 As a food habit  
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## 181 Milder taste  
## 182 As a food habit  
## 183 As a food habit  
## 184 Awareness of nutritional quality  
## 185 As a food habit  
## 186 Not mentioned  
## 187 Awareness of nutritional quality  
## 188 Awareness of nutritional quality  
## 189 Milder taste, As a food habit  
## 190 Awareness of nutritional quality  
## 191 Milder taste  
## 192 As a food habit  
## 193 Awareness of nutritional quality  
## 194 As a food habit  
## 195 Awareness of nutritional quality  
## 196 Awareness of nutritional quality  
## 197 Awareness of nutritional quality  
## 198 As a food habit, Awareness of nutritional quality  
## 199 Not mentioned   
## 200 Texture  
## 201 As a food habit  
## 202 Milder taste  
## 203 As a food habit  
## 204 Awareness of nutritional quality  
## 205 Milder taste  
## 206 As a food habit  
## 207 As a food habit  
## 208 Milder taste, As a food habit  
## 209 Awareness of nutritional quality  
## 210 Milder taste  
## 211 Awareness of nutritional quality  
## 212 Milder taste  
## 213 Texture  
## 214 Not mentioned   
## 215 Milder taste  
## 216 Milder taste  
## 217 As a food habit  
## 218 Awareness of nutritional quality  
## 219 Awareness of nutritional quality  
## 220 Milder taste  
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## 222 Milder taste  
## 223 Not mentioned   
## 224 Not mentioned   
## 225 Awareness of nutritional quality  
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## 228 As a food habit  
## 229 As a food habit  
## 230 Awareness of nutritional quality  
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## 232 Awareness of nutritional quality  
## 233 As a food habit  
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## 235 As a food habit  
## 236 Awareness of nutritional quality  
## 237 As a food habit  
## 238 As a food habit  
## 239 Not mentioned   
## 240 Awareness of nutritional quality  
## 241 Awareness of nutritional quality  
## 242 Awareness of nutritional quality  
## 243 Awareness of nutritional quality  
## 244 As a food habit  
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## 246 Milder taste  
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## 249 Awareness of nutritional quality  
## 250 As a food habit  
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## 252 Awareness of nutritional quality  
## 253 Milder taste  
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## 262 Awareness of nutritional quality  
## 263 Milder taste  
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## 266 As a food habit  
## 267 Not mentioned   
## 268 Awareness of nutritional quality  
## 269 As a food habit  
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## 272 Awareness of nutritional quality  
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## 274 Milder taste  
## 275 Milder taste  
## 276 As a food habit  
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## 279 Milder taste  
## 280 As a food habit  
## 281 Awareness of nutritional quality  
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## 283 As a food habit  
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## 285 Awareness of nutritional quality  
## 286 Milder taste  
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## 292 As a food habit  
## 293 Awareness of nutritional quality  
## 294 Awareness of nutritional quality  
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## 296 Milder taste  
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## 302 Milder taste  
## 303 Awareness of nutritional quality  
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## 313 Milder taste  
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## 316 Awareness of nutritional quality  
## 317 Awareness of nutritional quality  
## 318 Not mentioned   
## 319 As a food habit  
## 320 Awareness of nutritional quality  
## 321 Milder taste  
## 322 Milder taste  
## 323 Milder taste  
## 324 Milder taste  
## 325 As a food habit  
## 326 Milder taste  
## 327 Milder taste  
## 328 Milder taste, Awareness of nutritional quality  
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## 330 Awareness of nutritional quality  
## 331 Awareness of nutritional quality  
## 332 Milder taste  
## 333 Milder taste  
## 334 As a food habit, Awareness of nutritional quality  
## 335 Awareness of nutritional quality  
## 336 Milder taste  
## 337 As a food habit  
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## 352 Awareness of nutritional quality  
## 353 Milder taste  
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## 355 Awareness of nutritional quality  
## 356 As a food habit  
## 357 As a food habit  
## 358 Milder taste  
## 359 As a food habit  
## 360 As a food habit  
## 361 As a food habit  
## 362 Texture  
## 363 As a food habit  
## 364 Milder taste  
## 365 As a food habit  
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## 381 Milder taste  
## 382 Milder taste  
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## 384   
## reason\_to\_include  
## 1 Nutritional benefits, Health benefits, Freshness, Readily available  
## 2 Nutritional benefits, Taste  
## 3 Nutritional benefits  
## 4   
## 5 Nutritional benefits  
## 6 Nutritional benefits, Health benefits  
## 7 Nutritional benefits  
## 8 Nutritional benefits  
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## 10 Nutritional benefits  
## 11 Nutritional benefits  
## 12 Nutritional benefits  
## 13 Nutritional benefits  
## 14 Health benefits, Nutritional benefits, Freshness  
## 15 Nutritional benefits, Health benefits  
## 16 Nutritional benefits, Cheaper than other protein sources, Health benefits  
## 17   
## 18   
## 19   
## 20 Nutritional benefits, Health benefits, Taste, Freshness  
## 21   
## 22 Nutritional benefits  
## 23 Nutritional benefits, Health benefits, Freshness  
## 24 Nutritional benefits  
## 25 Nutritional benefits  
## 26 Nutritional benefits  
## 27 Nutritional benefits  
## 28 Nutritional benefits  
## 29 Nutritional benefits  
## 30 Nutritional benefits  
## 31 As a habit  
## 32 Nutritional benefits  
## 33 Nutritional benefits  
## 34 Readily available  
## 35 Nutritional benefits  
## 36 As a habit  
## 37 Nutritional benefits  
## 38 Nutritional benefits  
## 39 Cheaper than other protein sources  
## 40 Nutritional benefits  
## 41 Nutritional benefits  
## 42 Nutritional benefits  
## 43 Nutritional benefits  
## 44 Cheaper than other protein sources  
## 45 Nutritional benefits  
## 46 Nutritional benefits  
## 47 As a habit  
## 48 Nutritional benefits  
## 49 Nutritional benefits  
## 50 Nutritional benefits  
## 51 Nutritional benefits  
## 52 Freshness  
## 53 Nutritional benefits  
## 54 Nutritional benefits  
## 55 Nutritional benefits  
## 56 Health benefits, Freshness, Readily available  
## 57 Nutritional benefits  
## 58 Nutritional benefits  
## 59 Nutritional benefits  
## 60 Nutritional benefits  
## 61 Freshness  
## 62 Nutritional benefits  
## 63 Nutritional benefits, Health benefits, Taste, Freshness, Readily available  
## 64 Nutritional benefits  
## 65 Nutritional benefits  
## 66 Nutritional benefits  
## 67 Health benefits  
## 68 Freshness  
## 69 Nutritional benefits  
## 70 Freshness, Readily available  
## 71 Cheaper than other protein sources  
## 72 Nutritional benefits  
## 73 Cheaper than other protein sources  
## 74 Nutritional benefits, Health benefits, Freshness, Readily available  
## 75 Nutritional benefits  
## 76 Nutritional benefits  
## 77 Nutritional benefits  
## 78 Nutritional benefits  
## 79 Nutritional benefits  
## 80 As a habit  
## 81 As a habit  
## 82 Nutritional benefits, Health benefits, Freshness  
## 83 Nutritional benefits  
## 84 Cheaper than other protein sources  
## 85 Nutritional benefits  
## 86   
## 87 Nutritional benefits  
## 88 Nutritional benefits  
## 89 Nutritional benefits  
## 90 As a habit  
## 91 As a habit  
## 92 As a habit  
## 93 Taste  
## 94 Nutritional benefits  
## 95 Nutritional benefits  
## 96 Taste, Freshness, Readily available  
## 97 Nutritional benefits  
## 98 Nutritional benefits  
## 99 Readily available  
## 100 Readily available  
## 101 Nutritional benefits  
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## 108 Nutritional benefits  
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## 111 Nutritional benefits  
## 112 Nutritional benefits, Cheaper than other protein sources, Health benefits, Taste, Freshness, Readily available  
## 113 Nutritional benefits  
## 114 Nutritional benefits  
## 115 Nutritional benefits  
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## 117 Nutritional benefits  
## 118 Nutritional benefits  
## 119 Nutritional benefits  
## 120 Taste  
## 121 Nutritional benefits, Cheaper than other protein sources, Health benefits, Taste, Freshness, Readily available  
## 122   
## 123 Nutritional benefits  
## 124 Freshness  
## 125   
## 126 Nutritional benefits  
## 127 Freshness  
## 128 Nutritional benefits  
## 129 Readily available  
## 130 Nutritional benefits, Health benefits  
## 131 Nutritional benefits  
## 132 Nutritional benefits  
## 133 Nutritional benefits  
## 134 Freshness  
## 135 Nutritional benefits  
## 136 Nutritional benefits  
## 137 Nutritional benefits  
## 138 Readily available  
## 139 Nutritional benefits  
## 140 Nutritional benefits  
## 141 Nutritional benefits  
## 142 Nutritional benefits, Health benefits  
## 143 Nutritional benefits  
## 144 Nutritional benefits  
## 145 Nutritional benefits  
## 146 Nutritional benefits  
## 147   
## 148 Health benefits, Taste  
## 149 Nutritional benefits  
## 150 Cheaper than other protein sources  
## 151 Nutritional benefits  
## 152 Not mentioned   
## 153 Readily available  
## 154 Nutritional benefits  
## 155 Nutritional benefits  
## 156 Not mentioned  
## 157 Nutritional benefits  
## 158 Nutritional benefits  
## 159 Freshness  
## 160 As a habit  
## 161 Nutritional benefits, Health benefits  
## 162 Nutritional benefits  
## 163 Nutritional benefits  
## 164 Nutritional benefits  
## 165 Health benefits  
## 166 Nutritional benefits  
## 167 Nutritional benefits  
## 168   
## 169 As a habit  
## 170 Not mentioned  
## 171 Nutritional benefits, Health benefits, As a habit, Taste, Freshness  
## 172 Nutritional benefits  
## 173 Cheaper than other protein sources  
## 174 Freshness  
## 175 Freshness, Readily available  
## 176 As a habit  
## 177 Readily available  
## 178 Readily available  
## 179 Nutritional benefits  
## 180   
## 181 Taste  
## 182 Nutritional benefits  
## 183 Nutritional benefits, Health benefits, Freshness  
## 184 Nutritional benefits  
## 185 Nutritional benefits  
## 186 Nutritional benefits  
## 187 Nutritional benefits  
## 188 Freshness  
## 189 Not mentioned   
## 190 Nutritional benefits  
## 191 Nutritional benefits  
## 192 Nutritional benefits  
## 193 Nutritional benefits  
## 194 Cheaper than other protein sources, Freshness, Readily available  
## 195 Nutritional benefits  
## 196 Nutritional benefits  
## 197 Nutritional benefits  
## 198 Nutritional benefits, Freshness, Readily available  
## 199 Not mentioned   
## 200 Health benefits  
## 201 Nutritional benefits  
## 202 Nutritional benefits  
## 203 As a habit  
## 204 Cheaper than other protein sources  
## 205 Nutritional benefits  
## 206 Nutritional benefits  
## 207 Nutritional benefits  
## 208 Freshness, Readily available  
## 209 Nutritional benefits, Cheaper than other protein sources  
## 210 Nutritional benefits  
## 211 Freshness  
## 212 Nutritional benefits  
## 213 Nutritional benefits, Health benefits  
## 214 Freshness  
## 215 Nutritional benefits  
## 216 Taste  
## 217 Nutritional benefits  
## 218 Nutritional benefits  
## 219 Nutritional benefits  
## 220 Nutritional benefits  
## 221   
## 222 Nutritional benefits  
## 223 Nutritional benefits  
## 224 Nutritional benefits  
## 225 Nutritional benefits, Cheaper than other protein sources, Health benefits, Freshness, Readily available  
## 226   
## 227   
## 228 Freshness  
## 229 Freshness  
## 230 Nutritional benefits  
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## 232 Nutritional benefits  
## 233 Nutritional benefits  
## 234 Nutritional benefits  
## 235 Readily available  
## 236 Freshness  
## 237 As a habit  
## 238 Nutritional benefits  
## 239 Nutritional benefits  
## 240 Cheaper than other protein sources  
## 241 As a habit  
## 242 Cheaper than other protein sources  
## 243 Cheaper than other protein sources  
## 244 Nutritional benefits  
## 245   
## 246 Nutritional benefits  
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## 248   
## 249 Readily available  
## 250 Cheaper than other protein sources  
## 251   
## 252 Nutritional benefits  
## 253 Freshness  
## 254   
## 255 Cheaper than other protein sources  
## 256 Freshness  
## 257 Cheaper than other protein sources  
## 258 Nutritional benefits  
## 259 As a habit  
## 260 Taste  
## 261 Freshness  
## 262 Readily available  
## 263 Freshness  
## 264 As a habit  
## 265 Cheaper than other protein sources, Freshness  
## 266 Nutritional benefits  
## 267 Freshness, Readily available  
## 268 Nutritional benefits  
## 269 Nutritional benefits  
## 270   
## 271 Readily available  
## 272 Nutritional benefits  
## 273   
## 274 Nutritional benefits  
## 275 Nutritional benefits, Health benefits, Taste, Readily available  
## 276 Cheaper than other protein sources  
## 277 Nutritional benefits  
## 278 Nutritional benefits, Cheaper than other protein sources, Freshness, Readily available  
## 279 Nutritional benefits  
## 280 Freshness  
## 281 Nutritional benefits  
## 282   
## 283 Readily available  
## 284 Nutritional benefits, Readily available  
## 285 Nutritional benefits  
## 286 Nutritional benefits  
## 287 As a habit  
## 288 Nutritional benefits  
## 289 Health benefits  
## 290 Taste  
## 291 As a habit  
## 292 Freshness  
## 293 Freshness  
## 294 Freshness  
## 295 Freshness  
## 296 Nutritional benefits  
## 297 Nutritional benefits  
## 298 Nutritional benefits  
## 299 Nutritional benefits  
## 300 Health benefits  
## 301 Nutritional benefits  
## 302 Nutritional benefits  
## 303 Nutritional benefits  
## 304 Nutritional benefits  
## 305 Cheaper than other protein sources  
## 306 Cheaper than other protein sources  
## 307 Taste  
## 308 Nutritional benefits  
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## 318 Nutritional benefits  
## 319 Taste  
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## 322 Nutritional benefits  
## 323 Nutritional benefits  
## 324 Cheaper than other protein sources  
## 325 Readily available  
## 326 Nutritional benefits  
## 327 Nutritional benefits  
## 328 Nutritional benefits  
## 329   
## 330 Nutritional benefits  
## 331 Nutritional benefits  
## 332 Nutritional benefits, Taste, Readily available  
## 333 Freshness  
## 334 Nutritional benefits, Health benefits  
## 335 Nutritional benefits  
## 336 Nutritional benefits  
## 337 Nutritional benefits  
## 338 Nutritional benefits  
## 339 Nutritional benefits  
## 340 Cheaper than other protein sources, Freshness  
## 341 Nutritional benefits  
## 342 Nutritional benefits  
## 343 Nutritional benefits  
## 344 Nutritional benefits  
## 345 Nutritional benefits  
## 346 Nutritional benefits  
## 347 Nutritional benefits  
## 348 Nutritional benefits  
## 349 Freshness  
## 350 Cheaper than other protein sources  
## 351 As a habit  
## 352 Nutritional benefits  
## 353 Nutritional benefits  
## 354 Freshness  
## 355 Nutritional benefits  
## 356 Cheaper than other protein sources  
## 357 Nutritional benefits  
## 358 Nutritional benefits  
## 359 Freshness  
## 360 As a habit  
## 361 Nutritional benefits  
## 362 Nutritional benefits  
## 363 Cheaper than other protein sources  
## 364 Nutritional benefits  
## 365 As a habit  
## 366 Nutritional benefits  
## 367 Nutritional benefits  
## 368 Nutritional benefits  
## 369   
## 370   
## 371 Nutritional benefits, Health benefits, As a habit  
## 372 Nutritional benefits  
## 373   
## 374 Nutritional benefits, Health benefits  
## 375 Nutritional benefits, Cheaper than other protein sources, Health benefits, As a habit, Taste, Freshness, Readily available  
## 376 As a habit  
## 377 Nutritional benefits, Readily available  
## 378   
## 379 Nutritional benefits  
## 380   
## 381 Nutritional benefits  
## 382 Health benefits  
## 383   
## 384   
## consumption\_changing  
## 1 No change  
## 2 Decreased  
## 3 No change  
## 4 Not mentioned  
## 5 Decreased  
## 6 Decreased  
## 7 Decreased  
## 8 No change  
## 9 Not mentioned  
## 10 Decreased  
## 11 Decreased  
## 12 Decreased  
## 13 Decreased  
## 14 Decreased  
## 15 Decreased  
## 16 Decreased  
## 17 Not mentioned  
## 18 Not mentioned  
## 19 Not mentioned  
## 20 Increased  
## 21 Not mentioned  
## 22 No change  
## 23 No change  
## 24 No change  
## 25 Increased  
## 26 No change  
## 27 Increased  
## 28 Decreased  
## 29 Decreased  
## 30 No change  
## 31 No change  
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## 37 Decreased  
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## 40 No change  
## 41 No change  
## 42 Decreased  
## 43 No change  
## 44 No change  
## 45 Increased  
## 46 No change  
## 47 No change  
## 48 No change  
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## 50 No change  
## 51 No change  
## 52 No change  
## 53 No change  
## 54 Decreased  
## 55 No change  
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## 58 No change  
## 59 Decreased  
## 60 No change  
## 61 Increased  
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## 63 No change  
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## 78 Decreased  
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## 85 Decreased  
## 86 Not mentioned  
## 87 Decreased  
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## 94 No change  
## 95 No change  
## 96 Decreased  
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## 101 Decreased  
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## 107 No change  
## 108 No change  
## 109 Decreased  
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## 111 No change  
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## 113 Decreased  
## 114 Decreased  
## 115 Increased  
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## 117 No change  
## 118 Decreased  
## 119 No change  
## 120 No change  
## 121 Decreased  
## 122 Not mentioned  
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## 125 Not mentioned  
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## 152 Decreased  
## 153 Increased  
## 154 Decreased  
## 155 Increased  
## 156 Decreased  
## 157 No change  
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## 159 No change  
## 160 Decreased  
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## 162 No change  
## 163 Decreased  
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## 180 Not mentioned  
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## 186 No change  
## 187 No change  
## 188 Decreased  
## 189 Increased  
## 190 Decreased  
## 191 Decreased  
## 192 Decreased  
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## 243 No change  
## 244 Decreased  
## 245 Not mentioned  
## 246 Decreased  
## 247 Not mentioned  
## 248 Not mentioned  
## 249 No change  
## 250 Decreased  
## 251 Not mentioned  
## 252 No change  
## 253 No change  
## 254 Not mentioned  
## 255 Increased  
## 256 Increased  
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## 265 No change  
## 266 Decreased  
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## 269 Decreased  
## 270 Not mentioned  
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## 279 Increased  
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## 281 No change  
## 282 Not mentioned  
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## 286 Decreased  
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## 302 Decreased  
## 303 Increased  
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## 324 No change  
## 325 No change  
## 326 Increased  
## 327 Increased  
## 328 No change  
## 329 Not mentioned  
## 330 No change  
## 331 Decreased  
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## 345 Decreased  
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## 367 No change  
## 368 No change  
## 369 Not mentioned  
## 370 Not mentioned  
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## 372 No change  
## 373 Not mentioned  
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## 375 No change  
## 376 Decreased  
## 377 Decreased  
## 378 Not mentioned  
## 379 Decreased  
## 380 Not mentioned  
## 381 Decreased  
## 382 Decreased  
## 383 Not mentioned  
## 384 Not mentioned  
## reason\_to\_change  
## 1   
## 2 High consumption of other animal sources  
## 3   
## 4   
## 5 Expensive   
## 6 Inflation   
## 7 Expensive   
## 8   
## 9   
## 10 Expensive   
## 11 Expensive   
## 12 Expensive   
## 13 Expensive   
## 14 Expensive   
## 15 Economic Difficulties   
## 16 Expensive   
## 17   
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## 24   
## 25 Readily available   
## 26   
## 27   
## 28   
## 29 Less availability   
## 30   
## 31   
## 32   
## 33 Economic Difficulties   
## 34   
## 35   
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## 39 Expensive   
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## 42 Economic Difficulties   
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## 58   
## 59 Expensive   
## 60   
## 61 Preference of the child has increased   
## 62 Economic Difficulties   
## 63   
## 64 Expensive   
## 65   
## 66   
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## 71   
## 72 Economic Difficulties   
## 73 Due to consumption of eggs  
## 74   
## 75 Economic Difficulties   
## 76   
## 77   
## 78 Economic Difficulties   
## 79   
## 80   
## 81   
## 82 Expensive   
## 83   
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## 87 Economic Difficulties   
## 88   
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## 96 Economic Difficulties   
## 97 Inflation   
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## 108   
## 109 Expensive   
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## 111   
## 112 Expensive   
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## 114   
## 115 freshness  
## 116   
## 117   
## 118 Inflation   
## 119   
## 120   
## 121 Expensive   
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## 126 Expensive   
## 127 Expensive   
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## 139   
## 140 Nutrients  
## 141 Expensive   
## 142   
## 143   
## 144 Expensive   
## 145   
## 146 Economic Difficulties   
## 147   
## 148 Inflation   
## 149 Economic Difficulties   
## 150 Expensive   
## 151 Expensive   
## 152 Economic Difficulties   
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## 154 Expensive   
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## 156 Economic Difficulties   
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## 160 Expensive   
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## 163 Expensive   
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## 166 Economic Difficulties   
## 167   
## 168   
## 169   
## 170 Dislikeness   
## 171   
## 172 Economic Difficulties   
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## 177 Economic Difficulties   
## 178 Economic Difficulties   
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## 188 Expensive   
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## 202 Expensive   
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## 206 Expensive   
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## 212   
## 213 High consumption   
## 214   
## 215   
## 216   
## 217   
## 218 Economic Difficulties   
## 219 Due to Corona  
## 220   
## 221   
## 222   
## 223   
## 224 Economic difficulties   
## 225   
## 226   
## 227   
## 228   
## 229 The number of family members increased   
## 230   
## 231   
## 232   
## 233   
## 234   
## 235 Higher prices  
## 236 Economic difficulties   
## 237   
## 238 Change of residence   
## 239 Economic difficulties   
## 240   
## 241   
## 242   
## 243   
## 244 Expensive   
## 245   
## 246 Economic difficulties   
## 247   
## 248   
## 249   
## 250 Expensive   
## 251   
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## 255   
## 256 The number of family members increased   
## 257   
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## 261 The number of family members increased   
## 262   
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## 264   
## 265   
## 266 Expensive   
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## 269 Expensive   
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## 285 Expensive   
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## 310 Expensive   
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## 315 Expensive   
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## 317 Expensive   
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## 325   
## 326 Preference of the child has increased   
## 327 Readily available   
## 328   
## 329   
## 330   
## 331 Expensive   
## 332 Economic difficulties   
## 333   
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## 345 Expensive   
## 346   
## 347 Preference of the child has increased   
## 348 Expensive   
## 349   
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## 351 Expensive   
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## 353   
## 354 Expensive   
## 355   
## 356 Expensive   
## 357 Expensive   
## 358   
## 359 Economic difficulties   
## 360 Fewer places to purchase and seafood consumption as an alternative   
## 361   
## 362   
## 363   
## 364 Expensive   
## 365 Expensive   
## 366   
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## 376   
## 377   
## 378   
## 379 Expensive   
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## 381   
## 382   
## 383   
## 384   
## healthcare\_guidance limit\_the\_consumption  
## 1 No No  
## 2 No No  
## 3 No No  
## 4 Not mentioned   
## 5 No Maybe  
## 6 No No  
## 7 No No  
## 8 No No  
## 9 Not mentioned   
## 10 No No  
## 11 No No  
## 12 No No  
## 13 No No  
## 14 No No  
## 15 No No  
## 16 Maybe Yes  
## 17 Not mentioned   
## 18 Not mentioned   
## 19 Not mentioned   
## 20 Yes Maybe  
## 21 Not mentioned   
## 22 Yes No  
## 23 No Maybe  
## 24 Maybe No  
## 25 No No  
## 26 No No  
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## 29 Yes No  
## 30 No No  
## 31 No No  
## 32 No No  
## 33 No No  
## 34 No No  
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## 37 Yes Yes  
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## 53 Yes No  
## 54 Yes No  
## 55 No No  
## 56 No No  
## 57 No No  
## 58 No No  
## 59 Yes No  
## 60 Yes No  
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## 64 No No  
## 65 No No  
## 66 Yes No  
## 67 No No  
## 68 No No  
## 69 Yes No  
## 70 No No  
## 71 No No  
## 72 No No  
## 73 Yes No  
## 74 No No  
## 75 No Yes  
## 76 No No  
## 77 No No  
## 78 No No  
## 79 No No  
## 80 No No  
## 81 No No  
## 82 Yes No  
## 83 No No  
## 84 Yes No  
## 85 No No  
## 86 Not mentioned   
## 87 No Yes  
## 88 No Yes  
## 89 No No  
## 90 No No  
## 91 No No  
## 92 No No  
## 93 No No  
## 94 No No  
## 95 No No  
## 96 No No  
## 97 No No  
## 98 No No  
## 99 No No  
## 100 No No  
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## 103 No No  
## 104 No No  
## 105 No No  
## 106 No No  
## 107 No No  
## 108 No No  
## 109 No No  
## 110 No No  
## 111 No No  
## 112 No No  
## 113 No No  
## 114 No No  
## 115 No Yes  
## 116 No No  
## 117 No No  
## 118 Yes No  
## 119 No No  
## 120 No No  
## 121 No No  
## 122 Not mentioned   
## 123 No No  
## 124 No No  
## 125 Not mentioned   
## 126 No Yes  
## 127 No No  
## 128 No No  
## 129 No No  
## 130 Yes No  
## 131 No No  
## 132 No No  
## 133 No No  
## 134 No No  
## 135 No No  
## 136 No No  
## 137 No No  
## 138 No No  
## 139 No No  
## 140 No No  
## 141 No No  
## 142 No No  
## 143 No No  
## 144 No No  
## 145 No No  
## 146 No No  
## 147 Not mentioned   
## 148 No No  
## 149 No No  
## 150 No No  
## 151 No No  
## 152 No No  
## 153 No No  
## 154 No No  
## 155 No No  
## 156 No No  
## 157 No No  
## 158 No No  
## 159 No No  
## 160 No No  
## 161 No No  
## 162 No No  
## 163 No No  
## 164 No No  
## 165 No No  
## 166 No No  
## 167 No No  
## 168 Not mentioned   
## 169 No No  
## 170 No Yes  
## 171 No No  
## 172 No No  
## 173 No No  
## 174 No No  
## 175 No No  
## 176 No No  
## 177 No No  
## 178 No No  
## 179 No No  
## 180 Not mentioned   
## 181 No Yes  
## 182 No No  
## 183 No No  
## 184 No No  
## 185 No No  
## 186 No No  
## 187 No No  
## 188 No No  
## 189 No No  
## 190 No No  
## 191 No No  
## 192 No No  
## 193 No No  
## 194 Yes Maybe  
## 195 Maybe No  
## 196 No No  
## 197 Yes No  
## 198 No No  
## 199 Maybe No  
## 200 No No  
## 201 No No  
## 202 No No  
## 203 No No  
## 204 No No  
## 205 No No  
## 206 No No  
## 207 No No  
## 208 No No  
## 209 Maybe No  
## 210 No No  
## 211 No No  
## 212 No No  
## 213 No No  
## 214 No No  
## 215 No No  
## 216 No No  
## 217 No No  
## 218 No No  
## 219 No No  
## 220 No No  
## 221 Not mentioned   
## 222 No No  
## 223 Yes No  
## 224 Yes No  
## 225 No No  
## 226 Not mentioned   
## 227 Not mentioned   
## 228 Yes No  
## 229 Maybe No  
## 230 Yes No  
## 231 No No  
## 232 No No  
## 233 No No  
## 234 Maybe No  
## 235 No No  
## 236 No No  
## 237 No No  
## 238 Yes No  
## 239 Maybe No  
## 240 No No  
## 241 No No  
## 242 No No  
## 243 No No  
## 244 Yes No  
## 245 Not mentioned   
## 246 Yes No  
## 247 Not mentioned   
## 248 Not mentioned   
## 249 Maybe Maybe  
## 250 No No  
## 251 Not mentioned   
## 252 Yes No  
## 253 No No  
## 254 Not mentioned   
## 255 No No  
## 256 Maybe No  
## 257 No No  
## 258 No No  
## 259 Yes No  
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## 261 Maybe No  
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## 268 No No  
## 269 Yes No  
## 270 Not mentioned   
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## 272 No Maybe  
## 273 Not mentioned   
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## 275 No No  
## 276 No No  
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## 278 No No  
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## 280 No No  
## 281 No No  
## 282 Not mentioned   
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## 284 No No  
## 285 Yes No  
## 286 No No  
## 287 No No  
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## 291 No No  
## 292 No No  
## 293 Yes No  
## 294 Yes No  
## 295 Yes No  
## 296 Yes No  
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## 303 Yes No  
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## 315 No No  
## 316 No No  
## 317 No No  
## 318 No No  
## 319 No No  
## 320 Yes No  
## 321 No No  
## 322 No No  
## 323 No No  
## 324 No No  
## 325 No No  
## 326 No No  
## 327 No No  
## 328 Yes No  
## 329 Not mentioned   
## 330 No No  
## 331 No No  
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## 333 No No  
## 334 No No  
## 335 No No  
## 336 Yes No  
## 337 No No  
## 338 No No  
## 339 Yes No  
## 340 No No  
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## 342 No No  
## 343 Yes No  
## 344 No No  
## 345 Yes No  
## 346 No No  
## 347 No No  
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## 353 No No  
## 354 No No  
## 355 No No  
## 356 No No  
## 357 No No  
## 358 No No  
## 359 No No  
## 360 No No  
## 361 No No  
## 362 No No  
## 363 No No  
## 364 No No  
## 365 No No  
## 366 No No  
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## 368 No No  
## 369 Not mentioned   
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## 373 Not mentioned   
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## 375 Yes No  
## 376 Yes No  
## 377 Yes No  
## 378 Not mentioned   
## 379 Yes No  
## 380 Not mentioned   
## 381 No No  
## 382 No No  
## 383 Not mentioned   
## 384 Not mentioned   
## reason\_to\_limit\_change freshwater\_fish\_nut  
## 1 Strongly agree  
## 2 Agree  
## 3 Agree  
## 4   
## 5 Due to some health conditions of the children Agree  
## 6 Agree  
## 7 Strongly agree  
## 8 Agree  
## 9   
## 10 Strongly disagree  
## 11 Strongly agree  
## 12 Strongly agree  
## 13 Agree  
## 14 Agree  
## 15 Agree  
## 16 Agree  
## 17   
## 18   
## 19   
## 20 Due to some health conditions of the children Strongly disagree  
## 21   
## 22 Agree  
## 23 Agree  
## 24 Strongly disagree  
## 25 Agree  
## 26 Neither agree nor disagree  
## 27 Agree  
## 28 Agree  
## 29 Agree  
## 30 Agree  
## 31 Neither agree nor disagree  
## 32 Neither agree nor disagree  
## 33 Agree  
## 34 Neither agree nor disagree  
## 35 Agree  
## 36 Neither agree nor disagree  
## 37 Economic difficulties Agree  
## 38 Neither agree nor disagree  
## 39 Agree  
## 40 Strongly agree  
## 41 Neither agree nor disagree  
## 42 Neither agree nor disagree  
## 43 Agree  
## 44 Agree  
## 45 Neither agree nor disagree  
## 46 Neither agree nor disagree  
## 47 Agree  
## 48 Neither agree nor disagree  
## 49 Agree  
## 50 Neither agree nor disagree  
## 51 Agree  
## 52 Agree  
## 53 Agree  
## 54 Agree  
## 55 Agree  
## 56 Strongly agree  
## 57 Agree  
## 58 Agree  
## 59 Agree  
## 60 Agree  
## 61 Strongly agree  
## 62 Strongly agree  
## 63 Strongly agree  
## 64 Agree  
## 65 Agree  
## 66 Agree  
## 67 Strongly agree  
## 68 Agree  
## 69 Strongly agree  
## 70 Agree  
## 71 Agree  
## 72 Strongly agree  
## 73 Agree  
## 74 Strongly agree  
## 75 Strongly agree  
## 76 Agree  
## 77 Agree  
## 78 Agree  
## 79 Agree  
## 80 Agree  
## 81 Agree  
## 82 Neither agree nor disagree  
## 83 Neither agree nor disagree  
## 84 Agree  
## 85 Neither agree nor disagree  
## 86   
## 87 Economic difficulties Agree  
## 88 මුදල් අපහසුතා Neither agree nor disagree  
## 89 Agree  
## 90 Agree  
## 91 Agree  
## 92 Agree  
## 93 Strongly agree  
## 94 Strongly agree  
## 95 Agree  
## 96 Agree  
## 97 Agree  
## 98 Agree  
## 99 Agree  
## 100 Agree  
## 101 Agree  
## 102 Agree  
## 103 Agree  
## 104 Agree  
## 105 Agree  
## 106 Agree  
## 107 Agree  
## 108 Agree  
## 109 Agree  
## 110 Agree  
## 111 Agree  
## 112 Neither agree nor disagree  
## 113 Agree  
## 114 Agree  
## 115 Due to chemicals in water Agree  
## 116 Agree  
## 117 Agree  
## 118 Strongly agree  
## 119 Neither agree nor disagree  
## 120 Neither agree nor disagree  
## 121 Neither agree nor disagree  
## 122   
## 123 Strongly agree  
## 124 Agree  
## 125   
## 126 Expensive Agree  
## 127 Agree  
## 128 Agree  
## 129 Strongly agree  
## 130 Agree  
## 131 Agree  
## 132 Agree  
## 133 Agree  
## 134 Agree  
## 135 Agree  
## 136 Strongly agree  
## 137 Agree  
## 138 Agree  
## 139 Agree  
## 140 Agree  
## 141 Strongly agree  
## 142 Agree  
## 143 Agree  
## 144 Agree  
## 145 Agree  
## 146 Strongly agree  
## 147   
## 148 Agree  
## 149 Agree  
## 150 Neither agree nor disagree  
## 151 Expensive Agree  
## 152 Neither agree nor disagree  
## 153 Agree  
## 154 Agree  
## 155 Agree  
## 156 Agree  
## 157 Agree  
## 158 Neither agree nor disagree  
## 159 Neither agree nor disagree  
## 160 Agree  
## 161 Neither agree nor disagree  
## 162 Neither agree nor disagree  
## 163 Agree  
## 164 Agree  
## 165 Agree  
## 166 Agree  
## 167 Agree  
## 168   
## 169 Disagree  
## 170 Economic difficulties Neither agree nor disagree  
## 171 Agree  
## 172 Neither agree nor disagree  
## 173 Agree  
## 174 Agree  
## 175 Agree  
## 176 Disagree  
## 177 Agree  
## 178 Agree  
## 179 Agree  
## 180   
## 181 According to mother's preference Neither agree nor disagree  
## 182 Agree  
## 183 Agree  
## 184 Agree  
## 185 Strongly agree  
## 186 Agree  
## 187 Strongly disagree  
## 188 Agree  
## 189 Agree  
## 190 Neither agree nor disagree  
## 191 Agree  
## 192 Agree  
## 193 Strongly agree  
## 194 Agree  
## 195 Agree  
## 196 Agree  
## 197 Neither agree nor disagree  
## 198 Agree  
## 199 Agree  
## 200 Neither agree nor disagree  
## 201 Strongly agree  
## 202 Agree  
## 203 Agree  
## 204 Agree  
## 205 Strongly agree  
## 206 Agree  
## 207 Neither agree nor disagree  
## 208 Agree  
## 209 Agree  
## 210 Agree  
## 211 Agree  
## 212 Agree  
## 213 Strongly agree  
## 214 Strongly agree  
## 215 Agree  
## 216 Agree  
## 217 Strongly agree  
## 218 Agree  
## 219 Agree  
## 220 Neither agree nor disagree  
## 221   
## 222 Strongly agree  
## 223 Agree  
## 224 Agree  
## 225 Agree  
## 226   
## 227   
## 228 Strongly agree  
## 229 Agree  
## 230 Neither agree nor disagree  
## 231 Agree  
## 232 Agree  
## 233 Agree  
## 234 Strongly agree  
## 235 Agree  
## 236 Agree  
## 237 Agree  
## 238 Agree  
## 239 Agree  
## 240 Strongly agree  
## 241 Agree  
## 242 Agree  
## 243 Strongly agree  
## 244 Agree  
## 245   
## 246 Agree  
## 247   
## 248   
## 249 Agree  
## 250 Neither agree nor disagree  
## 251   
## 252 Agree  
## 253 Agree  
## 254   
## 255 Agree  
## 256 Agree  
## 257 Strongly agree  
## 258 Agree  
## 259 Agree  
## 260 Agree  
## 261 Agree  
## 262 Agree  
## 263 Agree  
## 264 Agree  
## 265 Agree  
## 266 Agree  
## 267 Agree  
## 268 Agree  
## 269 Agree  
## 270   
## 271 Agree  
## 272 Agree  
## 273   
## 274 Agree  
## 275 Agree  
## 276 Agree  
## 277 Agree  
## 278 Agree  
## 279 Agree  
## 280 Agree  
## 281 Agree  
## 282   
## 283 Agree  
## 284 Agree  
## 285 Agree  
## 286 Agree  
## 287 Agree  
## 288 Agree  
## 289 Strongly disagree  
## 290 Strongly disagree  
## 291 Agree  
## 292 Agree  
## 293 Agree  
## 294 Agree  
## 295 Agree  
## 296 Agree  
## 297 Neither agree nor disagree  
## 298 Agree  
## 299 Agree  
## 300 Agree  
## 301 Agree  
## 302 Agree  
## 303 Agree  
## 304 Agree  
## 305 Neither agree nor disagree  
## 306 Agree  
## 307 Agree  
## 308 Agree  
## 309 Agree  
## 310 Due to climate conditions Agree  
## 311 Agree  
## 312 Neither agree nor disagree  
## 313 Agree  
## 314 Agree  
## 315 Agree  
## 316 Agree  
## 317 Agree  
## 318 Agree  
## 319 Agree  
## 320 Agree  
## 321 Agree  
## 322 Agree  
## 323 Agree  
## 324 Agree  
## 325 Agree  
## 326 Agree  
## 327 Agree  
## 328 Agree  
## 329   
## 330 Agree  
## 331 Agree  
## 332 Neither agree nor disagree  
## 333 Neither agree nor disagree  
## 334 Strongly agree  
## 335 Neither agree nor disagree  
## 336 Agree  
## 337 Agree  
## 338 Agree  
## 339 Strongly agree  
## 340 Neither agree nor disagree  
## 341 Agree  
## 342 Strongly agree  
## 343 Agree  
## 344 Agree  
## 345 Agree  
## 346 Agree  
## 347 Agree  
## 348 Agree  
## 349 Agree  
## 350 Agree  
## 351 Agree  
## 352 Agree  
## 353 Agree  
## 354 Agree  
## 355 Agree  
## 356 Agree  
## 357 Agree  
## 358 Agree  
## 359 Agree  
## 360 Agree  
## 361 Agree  
## 362 Agree  
## 363 Agree  
## 364 Agree  
## 365 Neither agree nor disagree  
## 366 Neither agree nor disagree  
## 367 Agree  
## 368 Agree  
## 369   
## 370   
## 371 Agree  
## 372 Agree  
## 373   
## 374 Agree  
## 375 Agree  
## 376 Agree  
## 377 Agree  
## 378   
## 379 Neither agree nor disagree  
## 380   
## 381 Disagree  
## 382 Neither agree nor disagree  
## 383   
## 384   
## time\_range avg\_amount num\_of\_pieces  
## 1 1 2 2  
## 2 2 2 2  
## 3 3 2 2  
## 4 NA NA NA  
## 5 4 1 2  
## 6 1 2 2  
## 7 5 2 2  
## 8 3 2 1  
## 9 NA NA NA  
## 10 5 1 2  
## 11 5 1 2  
## 12 3 1 2  
## 13 4 2 2  
## 14 1 1 2  
## 15 NA 2 1  
## 16 3 2 2  
## 17 NA NA NA  
## 18 NA NA NA  
## 19 NA NA NA  
## 20 3 2 3  
## 21 NA NA NA  
## 22 NA 2 2  
## 23 3 1 2  
## 24 NA 1 2  
## 25 3 1 1  
## 26 3 2 2  
## 27 3 1 2  
## 28 1 1 2  
## 29 1 1 2  
## 30 NA 2 4  
## 31 3 NA 2  
## 32 4 NA 2  
## 33 1 1 2  
## 34 3 1 2  
## 35 4 2 2  
## 36 3 1 2  
## 37 NA 2 2  
## 38 3 1 2  
## 39 NA 2 2  
## 40 3 1 2  
## 41 5 1 1  
## 42 4 1 1  
## 43 5 2 1  
## 44 3 NA 1  
## 45 5 1 2  
## 46 1 1 2  
## 47 1 2 1  
## 48 4 2 2  
## 49 1 1 2  
## 50 1 2 2  
## 51 NA 1 2  
## 52 1 2 1  
## 53 3 1 2  
## 54 3 1 1  
## 55 3 1 2  
## 56 3 2 2  
## 57 NA 2 4  
## 58 5 2 4  
## 59 1 NA 2  
## 60 5 NA 2  
## 61 1 2 2  
## 62 1 NA 2  
## 63 4 2 2  
## 64 1 2 2  
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## 66 3 1 1  
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## 68 3 2 2  
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## 70 3 2 2  
## 71 NA 2 2  
## 72 1 NA 2  
## 73 4 NA 3  
## 74 1 2 2  
## 75 4 NA 1  
## 76 4 2 1  
## 77 4 2 1  
## 78 1 1 1  
## 79 1 1 1  
## 80 3 1 2  
## 81 3 2 1  
## 82 3 2 1  
## 83 3 1 3  
## 84 3 1 1  
## 85 1 NA 2  
## 86 NA NA NA  
## 87 2 1 1  
## 88 3 1 1  
## 89 3 1 2  
## 90 1 2 2  
## 91 1 NA 2  
## 92 3 2 2  
## 93 3 1 1  
## 94 3 2 2  
## 95 4 2 2  
## 96 2 2 2  
## 97 NA 2 2  
## 98 4 1 1  
## 99 1 2 1  
## 100 1 2 3  
## 101 1 2 2  
## 102 1 2 1  
## 103 1 2 2  
## 104 1 2 2  
## 105 3 1 1  
## 106 NA 1 NA  
## 107 4 1 1  
## 108 1 2 1  
## 109 1 2 2  
## 110 1 2 2  
## 111 3 1 1  
## 112 4 NA 2  
## 113 3 1 2  
## 114 1 2 2  
## 115 1 1 2  
## 116 3 1 1  
## 117 3 2 2  
## 118 1 1 2  
## 119 NA 1 1  
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## 121 4 NA 2  
## 122 NA NA NA  
## 123 4 2 2  
## 124 NA 2 1  
## 125 NA NA NA  
## 126 3 2 2  
## 127 3 2 2  
## 128 3 1 3  
## 129 5 2 3  
## 130 1 2 2  
## 131 NA 2 2  
## 132 4 2 2  
## 133 4 2 2  
## 134 NA 2 2  
## 135 4 2 2  
## 136 NA 2 2  
## 137 1 2 1  
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## 139 1 2 2  
## 140 3 2 2  
## 141 1 2 2  
## 142 1 1 2  
## 143 NA 1 1  
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## 145 NA 2 1  
## 146 NA 1 2  
## 147 NA NA NA  
## 148 4 2 1  
## 149 NA 1 1  
## 150 NA 2 2  
## 151 1 1 2  
## 152 NA 1 2  
## 153 NA 1 4  
## 154 4 2 2  
## 155 1 NA 1  
## 156 NA 2 2  
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## 158 4 2 2  
## 159 4 2 2  
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## 161 NA 1 2  
## 162 3 NA 2  
## 163 NA 2 2  
## 164 1 2 4  
## 165 1 2 2  
## 166 1 2 1  
## 167 1 NA 2  
## 168 NA NA NA  
## 169 3 2 2  
## 170 NA 1 2  
## 171 4 1 2  
## 172 NA 1 1  
## 173 1 2 2  
## 174 1 2 2  
## 175 3 2 2  
## 176 3 2 2  
## 177 NA 1 1  
## 178 3 2 2  
## 179 3 NA 4  
## 180 NA NA NA  
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## 184 4 2 2  
## 185 3 2 2  
## 186 4 1 2  
## 187 4 NA 2  
## 188 1 2 1  
## 189 3 2 2  
## 190 4 1 1  
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## 192 1 2 2  
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## 194 1 2 2  
## 195 NA 2 3  
## 196 1 2 1  
## 197 5 1 1  
## 198 1 1 2  
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## 203 1 2 2  
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## 206 NA 2 2  
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## 210 NA 2 2  
## 211 4 2 1  
## 212 4 2 2  
## 213 3 2 3  
## 214 1 2 1  
## 215 1 2 1  
## 216 1 2 1  
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## 218 NA 2 2  
## 219 3 1 2  
## 220 3 2 1  
## 221 NA NA NA  
## 222 NA NA 1  
## 223 NA 2 2  
## 224 NA 2 NA  
## 225 3 2 2  
## 226 NA NA NA  
## 227 NA NA NA  
## 228 3 NA 3  
## 229 NA 2 2  
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## 231 1 NA 2  
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## 233 1 2 2  
## 234 3 1 2  
## 235 4 1 2  
## 236 NA 2 1  
## 237 1 2 1  
## 238 3 NA NA  
## 239 NA 2 2  
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## 241 4 1 1  
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## 245 NA NA NA  
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## 247 NA NA NA  
## 248 NA NA NA  
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## 251 NA NA NA  
## 252 3 2 2  
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## 254 NA NA NA  
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## 260 4 2 2  
## 261 NA 2 2  
## 262 4 1 2  
## 263 4 2 2  
## 264 1 2 1  
## 265 4 2 2  
## 266 1 2 2  
## 267 NA NA 4  
## 268 3 1 2  
## 269 3 NA 2  
## 270 NA NA NA  
## 271 3 2 1  
## 272 3 1 1  
## 273 NA NA NA  
## 274 3 2 2  
## 275 1 1 2  
## 276 3 2 1  
## 277 3 2 1  
## 278 1 1 2  
## 279 3 NA 2  
## 280 4 2 2  
## 281 4 2 3  
## 282 NA NA NA  
## 283 3 NA 4  
## 284 3 2 2  
## 285 1 2 2  
## 286 NA 2 2  
## 287 NA 2 1  
## 288 NA 2 1  
## 289 3 1 2  
## 290 5 1 2  
## 291 NA 2 1  
## 292 4 2 3  
## 293 5 1 2  
## 294 5 1 2  
## 295 5 1 2  
## 296 NA 1 1  
## 297 4 2 2  
## 298 3 1 1  
## 299 3 2 3  
## 300 4 2 1  
## 301 1 2 2  
## 302 3 2 3  
## 303 1 1 2  
## 304 NA 2 NA  
## 305 1 2 1  
## 306 1 2 2  
## 307 3 1 2  
## 308 3 2 2  
## 309 1 1 2  
## 310 1 2 3  
## 311 NA 2 2  
## 312 4 1 2  
## 313 4 2 2  
## 314 3 1 2  
## 315 4 NA 2  
## 316 3 1 2  
## 317 1 2 2  
## 318 3 1 1  
## 319 4 2 NA  
## 320 3 2 2  
## 321 1 1 1  
## 322 1 1 1  
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## 324 3 2 2  
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## 327 3 2 2  
## 328 3 1 2  
## 329 NA NA NA  
## 330 3 2 2  
## 331 NA 2 2  
## 332 3 2 1  
## 333 3 2 1  
## 334 4 NA 2  
## 335 1 2 2  
## 336 NA 1 2  
## 337 4 2 2  
## 338 NA NA 2  
## 339 3 2 3  
## 340 3 1 1  
## 341 3 2 1  
## 342 4 2 1  
## 343 4 2 2  
## 344 1 1 1  
## 345 1 NA 2  
## 346 4 2 2  
## 347 1 NA 1  
## 348 NA 2 1  
## 349 NA 2 2  
## 350 NA 2 1  
## 351 5 1 NA  
## 352 1 2 2  
## 353 1 NA 3  
## 354 4 2 3  
## 355 1 2 2  
## 356 1 2 1  
## 357 4 2 1  
## 358 1 2 1  
## 359 1 2 2  
## 360 NA 1 1  
## 361 3 2 2  
## 362 NA NA 2  
## 363 3 2 2  
## 364 NA 1 4  
## 365 3 1 1  
## 366 4 NA 3  
## 367 NA 2 1  
## 368 3 1 2  
## 369 NA NA NA  
## 370 NA NA NA  
## 371 1 1 2  
## 372 1 1 2  
## 373 NA NA NA  
## 374 1 2 2  
## 375 4 2 2  
## 376 1 2 2  
## 377 1 2 2  
## 378 NA NA NA  
## 379 4 1 3  
## 380 NA NA NA  
## 381 4 2 2  
## 382 4 2 2  
## 383 NA NA NA  
## 384 NA NA NA  
## preparing\_way  
## 1 Fried fish  
## 2 Curry (With coconut milk), Fried fish  
## 3 Curry (With coconut milk)  
## 4   
## 5 Fish cutlet, Patties, Sandwiches  
## 6 Curry (With coconut milk), Fried fish, Fish cutlet/patties/sandwiches  
## 7 Grilled  
## 8 Curry (Chilled)  
## 9   
## 10 Grilled  
## 11 Curry (Chilled)  
## 12 Curry (Chilled)  
## 13 Curry (Chilled), Fried fish  
## 14 Curry (With coconut milk), Fried fish  
## 15 Curry (Chilled), Curry (With coconut milk), Fish cutlet, Patties, Sandwiches  
## 16 Curry (With coconut milk), Fried fish  
## 17   
## 18   
## 19   
## 20 Curry (Chilled), Curry (With coconut milk), Fish cutlet, Patties, Sandwiches  
## 21   
## 22 Curry (Chilled), Curry (With coconut milk), Fried fish  
## 23 Fried fish, Grilled, Fish cutlet/patties/sandwiches  
## 24 Fried fish  
## 25 Fried fish  
## 26 Fried fish  
## 27 Fried fish  
## 28 Curry (With coconut milk), Fried fish  
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## 63 Curry (With coconut milk), Fried fish  
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## 67 Curry (With coconut milk), Fried fish  
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## 69 Curry (Chilled), Curry (With coconut milk), Fried fish  
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## 91 Curry (Chilled), Curry (With coconut milk), Fried fish  
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## 96 Curry (With coconut milk), Fried fish  
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## 357 Curry (Chilled), Fried fish  
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## 360 Curry (With coconut milk)  
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## 362 Fish cutlet/patties/sandwiches  
## 363 Curry (Chilled)  
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## amount\_permonth\_Tilapia amount\_permonth\_Korali amount\_permonth\_Hunga  
## 1 Less than 2 kg   
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## amount\_permonth\_Loolla amount\_permonth\_Pethiya amount\_permonth\_Aandha  
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## 173   
## 174 4 - 6 kg   
## 175 Less than 2 kg   
## 176 Less than 2 kg   
## 177 Less than 2 kg   
## 178 Less than 2 kg   
## 179 4 - 6 kg   
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## 181 Less than 2 kg   
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## 183 2 - 4 kg   
## 184 Less than 2 kg   
## 185 2 - 4 kg   
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## 187 Less than 2 kg   
## 188 Less than 2 kg   
## 189 2 - 4 kg   
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## 198 4 - 6 kg   
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## 203 2 - 4 kg   
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## 225 2 - 4 kg Less than 2 kg   
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## 230 Less than 2 kg   
## 231 More than 6 kg   
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## 293 4 - 6 kg   
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## 302 4 - 6 kg   
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## 318 4 - 6 kg   
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## 326 2 - 4 kg   
## 327 Less than 2 kg   
## 328 2 - 4 kg   
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## 331 Less than 2 kg   
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## 334 Less than 2 kg  
## 335 4 - 6 kg   
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## 344 Less than 2 kg   
## 345 2 - 4 kg   
## 346 4 - 6 kg   
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## 351 2 - 4 kg 2 - 4 kg   
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## 359 2 - 4 kg   
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## 377 Less than 2 kg   
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## 383   
## 384   
## amount\_permonth\_Kawayya amount\_permonth\_Ankutta amount\_permonth\_Magura  
## 1   
## 2   
## 3 No purchasing No purchasing No purchasing  
## 4   
## 5   
## 6   
## 7 No purchasing No purchasing No purchasing  
## 8   
## 9   
## 10 No purchasing No purchasing No purchasing  
## 11 Less than 2 kg Less than 2 kg  
## 12 Less than 2 kg 2 - 4 kg Less than 2 kg  
## 13 No purchasing Less than 2 kg No purchasing  
## 14 No purchasing Less than 2 kg No purchasing  
## 15 No purchasing Less than 2 kg No purchasing  
## 16 Less than 2 kg  
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## 22 No purchasing Less than 2 kg No purchasing  
## 23 No purchasing Less than 2 kg No purchasing  
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## 25 Less than 2 kg   
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## 29 No purchasing No purchasing No purchasing  
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## 32   
## 33 Less than 2 kg Less than 2 kg No purchasing  
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## 40 Less than 2 kg Less than 2 kg   
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## 43 Less than 2 kg Less than 2 kg No purchasing  
## 44   
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## 47 Less than 2 kg Less than 2 kg   
## 48 Less than 2 kg Less than 2 kg Less than 2 kg  
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## 50 Less than 2 kg Less than 2 kg Less than 2 kg  
## 51 No purchasing No purchasing No purchasing  
## 52 No purchasing Less than 2 kg No purchasing  
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## 56 2 - 4 kg   
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## 69 Less than 2 kg Less than 2 kg   
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## 88 Less than 2 kg   
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## 94 2 - 4 kg   
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## 117 Less than 2 kg   
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## 123 Less than 2 kg   
## 124   
## 125   
## 126   
## 127   
## 128   
## 129 Less than 2 kg Less than 2 kg   
## 130 2 - 4 kg 2 - 4 kg 2 - 4 kg  
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## 150 Less than 2 kg   
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## 175 Less than 2 kg   
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## 189 2 - 4 kg   
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## 225 4 - 6 kg   
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## 228 Less than 2 kg   
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## 258 Less than 2 kg   
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## 284 Less than 2 kg   
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## 306 Less than 2 kg   
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## 326 2 - 4 kg   
## 327 2 - 4 kg   
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## 330 Less than 2 kg   
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## 375 Less than 2 kg   
## 376 Less than 2 kg   
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## 383   
## 384   
## amount\_permonth\_Kanradu.issa amount\_permonth\_Crap.spp amount\_permonth\_Other  
## 1   
## 2   
## 3 No purchasing No purchasing No purchasing  
## 4   
## 5   
## 6   
## 7 2 - 4 kg Less than 2 kg No purchasing  
## 8   
## 9   
## 10 2 - 4 kg 2 - 4 kg No purchasing  
## 11 2 - 4 kg 2 - 4 kg No purchasing  
## 12 2 - 4 kg Less than 2 kg No purchasing  
## 13 No purchasing No purchasing Less than 2 kg  
## 14 No purchasing No purchasing No purchasing  
## 15 No purchasing No purchasing   
## 16 Less than 2 kg   
## 17   
## 18   
## 19   
## 20 2 - 4 kg  
## 21   
## 22 No purchasing No purchasing No purchasing  
## 23 No purchasing No purchasing No purchasing  
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## 29 No purchasing Less than 2 kg   
## 30   
## 31   
## 32   
## 33 No purchasing No purchasing   
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## 38 2 - 4 kg  
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## 40 2 - 4 kg  
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## 42   
## 43 No purchasing No purchasing No purchasing  
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## 48 Less than 2 kg  
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## 50   
## 51 No purchasing No purchasing No purchasing  
## 52 No purchasing   
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## 55 Less than 2 kg  
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## 61 2 - 4 kg  
## 62   
## 63 Less than 2 kg  
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## 66   
## 67   
## 68 No purchasing  
## 69 Less than 2 kg  
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## 71 Less than 2 kg  
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## 88   
## 89 2 - 4 kg  
## 90 Less than 2 kg  
## 91 Less than 2 kg  
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## 97 Less than 2 kg  
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## 128   
## 129 Less than 2 kg  
## 130 2 - 4 kg  
## 131   
## 132 2 - 4 kg  
## 133 Less than 2 kg  
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## 150 Less than 2 kg  
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## 160   
## 161 Less than 2 kg  
## 162   
## 163   
## 164 More than 6 kg   
## 165 4 - 6 kg  
## 166   
## 167 4 - 6 kg  
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## 171 Less than 2 kg  
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## 173 Less than 2 kg  
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## 191 Less than 2 kg  
## 192 Less than 2 kg  
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## 209 Less than 2 kg  
## 210 2 - 4 kg  
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## 214 2 - 4 kg  
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## 217 More than 6 kg  
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## 225 Less than 2 kg  
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## 236 Less than 2 kg  
## 237 2 - 4 kg  
## 238 More than 6 kg  
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## 260 Less than 2 kg  
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## 264 2 - 4 kg  
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## 275 Less than 2 kg  
## 276   
## 277 Less than 2 kg  
## 278 2 - 4 kg  
## 279 4 - 6 kg  
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## 283 Less than 2 kg  
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## 285 Less than 2 kg  
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## 304 Less than 2 kg 2 - 4 kg  
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## 309 2 - 4 kg  
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## 311 2 - 4 kg  
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## 324   
## 325 2 - 4 kg  
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## 333 2 - 4 kg  
## 334 Less than 2 kg  
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## 338   
## 339 2 - 4 kg  
## 340   
## 341   
## 342 2 - 4 kg  
## 343   
## 344 Less than 2 kg  
## 345   
## 346   
## 347 2 - 4 kg  
## 348   
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## 354   
## 355 4 - 6 kg  
## 356   
## 357 Less than 2 kg  
## 358 Less than 2 kg  
## 359   
## 360   
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## 362   
## 363 Less than 2 kg  
## 364   
## 365   
## 366   
## 367 2 - 4 kg  
## 368   
## 369   
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## 373   
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## 375   
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## 380   
## 381   
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## 383   
## 384   
## other\_species processed\_dried\_fish processed\_smoked\_fish  
## 1 Less than 0.5 kg Less than 0.5 kg  
## 2   
## 3 0.5 - 1 kg 0.5 - 1 kg  
## 4   
## 5 More than 2 kg   
## 6 Less than 0.5 kg Less than 0.5 kg  
## 7 1 - 1.5 kg 0.5 - 1 kg  
## 8 0.5 - 1 kg  
## 9   
## 10 0.5 - 1 kg 0.5 - 1 kg  
## 11 Less than 0.5 kg 0.5 - 1 kg  
## 12 Less than 0.5 kg 0.5 - 1 kg  
## 13 0.5 - 1 kg Less than 0.5 kg  
## 14 0.5 - 1 kg Less than 0.5 kg  
## 15 Less than 0.5 kg No purchasing  
## 16 No purchasing Less than 0.5 kg  
## 17   
## 18   
## 19   
## 20 Less than 0.5 kg 0.5 - 1 kg  
## 21   
## 22 1.5 - 2 kg No purchasing  
## 23 1.5 - 2 kg No purchasing  
## 24 Less than 0.5 kg  
## 25   
## 26 1.5 - 2 kg   
## 27 1 - 1.5 kg   
## 28 0.5 - 1 kg   
## 29 1 - 1.5 kg   
## 30 1 - 1.5 kg  
## 31 1 - 1.5 kg  
## 32   
## 33 0.5 - 1 kg   
## 34 0.5 - 1 kg   
## 35 Less than 0.5 kg   
## 36 0.5 - 1 kg   
## 37 Less than 0.5 kg   
## 38 Lellu 0.5 - 1 kg   
## 39 Less than 0.5 kg   
## 40 Theppili 1 - 1.5 kg   
## 41 More than 2 kg More than 2 kg  
## 42   
## 43 No purchasing Less than 0.5 kg  
## 44 No purchasing No purchasing  
## 45 More than 2 kg   
## 46 1.5 - 2 kg   
## 47 More than 2 kg   
## 48 Lellu Less than 0.5 kg   
## 49 0.5 - 1 kg   
## 50 Less than 0.5 kg   
## 51   
## 52 1 - 1.5 kg   
## 53   
## 54   
## 55 Theppili Less than 0.5 kg   
## 56 0.5 - 1 kg  
## 57 1 - 1.5 kg  
## 58   
## 59 1 - 1.5 kg   
## 60 0.5 - 1 kg   
## 61 Theppili No purchasing No purchasing  
## 62 More than 2 kg   
## 63 Lellu 0.5 - 1 kg   
## 64   
## 65   
## 66   
## 67 0.5 - 1 kg   
## 68 Lellu No purchasing  
## 69 Lellu 0.5 - 1 kg   
## 70 No purchasing  
## 71 Lellu More than 2 kg   
## 72 More than 2 kg   
## 73 More than 2 kg   
## 74 0.5 - 1 kg  
## 75 More than 2 kg   
## 76 More than 2 kg   
## 77 1 - 1.5 kg   
## 78 0.5 - 1 kg   
## 79 1.5 - 2 kg  
## 80 0.5 - 1 kg   
## 81 More than 2 kg   
## 82 Less than 0.5 kg  
## 83 Less than 0.5 kg   
## 84 No purchasing   
## 85 No purchasing   
## 86   
## 87 Less than 0.5 kg   
## 88 Less than 0.5 kg   
## 89 Lellu 0.5 - 1 kg No purchasing  
## 90 Lellu 1.5 - 2 kg   
## 91 Lellu 1.5 - 2 kg   
## 92   
## 93 1 - 1.5 kg   
## 94 0.5 - 1 kg  
## 95 No purchasing   
## 96 No purchasing No purchasing  
## 97 Lellu 0.5 - 1 kg 1 - 1.5 kg  
## 98 0.5 - 1 kg   
## 99 0.5 - 1 kg   
## 100 More than 2 kg   
## 101 1 - 1.5 kg   
## 102 0.5 - 1 kg   
## 103 0.5 - 1 kg   
## 104 More than 2 kg   
## 105 More than 2 kg   
## 106   
## 107 0.5 - 1 kg   
## 108 0.5 - 1 kg   
## 109   
## 110 1 - 1.5 kg   
## 111 1.5 - 2 kg   
## 112 0.5 - 1 kg   
## 113 0.5 - 1 kg   
## 114 1 - 1.5 kg   
## 115 0.5 - 1 kg   
## 116 0.5 - 1 kg   
## 117 0.5 - 1 kg   
## 118 No purchasing No purchasing  
## 119 Less than 0.5 kg  
## 120 Less than 0.5 kg   
## 121 0.5 - 1 kg   
## 122   
## 123 0.5 - 1 kg  
## 124 No purchasing No purchasing  
## 125   
## 126 Less than 0.5 kg   
## 127 1 - 1.5 kg   
## 128   
## 129 Lellu Less than 0.5 kg Less than 0.5 kg  
## 130 Lellu 1 - 1.5 kg 1 - 1.5 kg  
## 131 0.5 - 1 kg 0.5 - 1 kg  
## 132 Lellu 1.5 - 2 kg   
## 133 Lellu 1.5 - 2 kg   
## 134 1.5 - 2 kg   
## 135 1 - 1.5 kg   
## 136 Less than 0.5 kg   
## 137   
## 138   
## 139 1 - 1.5 kg   
## 140 Less than 0.5 kg   
## 141 More than 2 kg More than 2 kg  
## 142 0.5 - 1 kg  
## 143 Less than 0.5 kg  
## 144 0.5 - 1 kg   
## 145 No purchasing No purchasing  
## 146   
## 147   
## 148 1 - 1.5 kg Less than 0.5 kg  
## 149   
## 150 Theppili Less than 0.5 kg  
## 151 Less than 0.5 kg   
## 152   
## 153   
## 154 No purchasing   
## 155 Less than 0.5 kg   
## 156 No purchasing No purchasing  
## 157 0.5 - 1 kg   
## 158 More than 2 kg   
## 159   
## 160 0.5 - 1 kg   
## 161 Lellu No purchasing 0.5 - 1 kg  
## 162   
## 163   
## 164   
## 165 Not mentioned More than 2 kg   
## 166 0.5 - 1 kg   
## 167 Theppili   
## 168   
## 169 More than 2 kg  
## 170 Less than 0.5 kg  
## 171 Not mentioned   
## 172 No purchasing No purchasing  
## 173 Theppili No purchasing No purchasing  
## 174 Less than 0.5 kg   
## 175 Less than 0.5 kg Less than 0.5 kg  
## 176 More than 2 kg   
## 177   
## 178 No purchasing No purchasing  
## 179 0.5 - 1 kg   
## 180   
## 181   
## 182   
## 183 1.5 - 2 kg No purchasing  
## 184 No purchasing No purchasing  
## 185 Less than 0.5 kg   
## 186 Less than 0.5 kg   
## 187 Less than 0.5 kg   
## 188 More than 2 kg   
## 189   
## 190   
## 191 Theppili Less than 0.5 kg No purchasing  
## 192 Japan batto/Theppili   
## 193   
## 194   
## 195 Less than 0.5 kg   
## 196 No purchasing No purchasing  
## 197   
## 198 Less than 0.5 kg No purchasing  
## 199 No purchasing No purchasing  
## 200 Less than 0.5 kg   
## 201   
## 202 1 - 1.5 kg   
## 203 1 - 1.5 kg   
## 204 0.5 - 1 kg   
## 205 Less than 0.5 kg   
## 206   
## 207   
## 208 Less than 0.5 kg Less than 0.5 kg  
## 209 Lellu 0.5 - 1 kg   
## 210 Theppili   
## 211 1 - 1.5 kg 1.5 - 2 kg  
## 212   
## 213   
## 214 Theppili   
## 215 More than 2 kg   
## 216   
## 217 Theppili 1 - 1.5 kg Less than 0.5 kg  
## 218 Less than 0.5 kg   
## 219 1 - 1.5 kg   
## 220 0.5 - 1 kg   
## 221   
## 222 Less than 0.5 kg   
## 223   
## 224   
## 225 Lellu More than 2 kg More than 2 kg  
## 226   
## 227   
## 228   
## 229   
## 230 More than 2 kg   
## 231 More than 2 kg   
## 232 1 - 1.5 kg   
## 233 1 - 1.5 kg   
## 234 0.5 - 1 kg  
## 235   
## 236 Lellu No purchasing No purchasing  
## 237 0.5 - 1 kg   
## 238 Theppili   
## 239 No purchasing No purchasing  
## 240 No purchasing  
## 241 No purchasing No purchasing  
## 242 No purchasing No purchasing  
## 243 More than 2 kg  
## 244 0.5 - 1 kg  
## 245   
## 246   
## 247   
## 248   
## 249 0.5 - 1 kg   
## 250   
## 251   
## 252 More than 2 kg   
## 253   
## 254   
## 255 0.5 - 1 kg   
## 256   
## 257 More than 2 kg  
## 258 1 - 1.5 kg  
## 259 No purchasing   
## 260 Lellu   
## 261   
## 262   
## 263   
## 264 0.5 - 1 kg   
## 265 1 - 1.5 kg   
## 266 0.5 - 1 kg Less than 0.5 kg  
## 267   
## 268 1 - 1.5 kg   
## 269 0.5 - 1 kg  
## 270   
## 271 1 - 1.5 kg   
## 272 1 - 1.5 kg   
## 273   
## 274 0.5 - 1 kg   
## 275 Theppili 0.5 - 1 kg   
## 276 0.5 - 1 kg   
## 277 Less than 0.5 kg  
## 278 Theppili   
## 279 Theppili   
## 280 0.5 - 1 kg   
## 281   
## 282   
## 283 Theppili Less than 0.5 kg   
## 284 Less than 0.5 kg Less than 0.5 kg  
## 285 Lellu, Theppili Less than 0.5 kg   
## 286   
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## 291   
## 292 0.5 - 1 kg  
## 293 1 - 1.5 kg   
## 294 Less than 0.5 kg   
## 295 0.5 - 1 kg   
## 296 Less than 0.5 kg  
## 297   
## 298 0.5 - 1 kg   
## 299 0.5 - 1 kg  
## 300   
## 301 0.5 - 1 kg  
## 302 1 - 1.5 kg  
## 303   
## 304 Lellu   
## 305 Less than 0.5 kg Less than 0.5 kg  
## 306   
## 307 No purchasing  
## 308   
## 309 Theppili 1 - 1.5 kg  
## 310 Less than 0.5 kg   
## 311 Lellu   
## 312 Less than 0.5 kg   
## 313   
## 314   
## 315   
## 316 No purchasing No purchasing  
## 317   
## 318 1 - 1.5 kg   
## 319 1 - 1.5 kg   
## 320 Less than 0.5 kg  
## 321 0.5 - 1 kg   
## 322 0.5 - 1 kg   
## 323 0.5 - 1 kg   
## 324 1 - 1.5 kg   
## 325 Theppili 1 - 1.5 kg   
## 326 0.5 - 1 kg 1 - 1.5 kg  
## 327 0.5 - 1 kg 0.5 - 1 kg  
## 328 0.5 - 1 kg 1 - 1.5 kg  
## 329   
## 330 0.5 - 1 kg   
## 331 1 - 1.5 kg   
## 332 More than 2 kg   
## 333 Theppili   
## 334 Lellu 0.5 - 1 kg   
## 335 More than 2 kg  
## 336   
## 337   
## 338 1.5 - 2 kg  
## 339 Theppili 1.5 - 2 kg   
## 340 No purchasing No purchasing  
## 341 Less than 0.5 kg Less than 0.5 kg  
## 342 Lellu Less than 0.5 kg Less than 0.5 kg  
## 343 Less than 0.5 kg   
## 344 Theppili Less than 0.5 kg   
## 345   
## 346 1 - 1.5 kg  
## 347 Theppili 1 - 1.5 kg   
## 348   
## 349   
## 350 Less than 0.5 kg   
## 351 No purchasing No purchasing  
## 352   
## 353 0.5 - 1 kg   
## 354   
## 355 Theppili   
## 356 No purchasing No purchasing  
## 357 1 - 1.5 kg No purchasing  
## 358 Theppili 0.5 - 1 kg   
## 359   
## 360 No purchasing No purchasing  
## 361   
## 362 0.5 - 1 kg Less than 0.5 kg  
## 363 Theppili Less than 0.5 kg 0.5 - 1 kg  
## 364 0.5 - 1 kg   
## 365   
## 366 Less than 0.5 kg Less than 0.5 kg  
## 367 Lellu   
## 368 No purchasing No purchasing  
## 369   
## 370   
## 371 Less than 0.5 kg No purchasing  
## 372 Less than 0.5 kg Less than 0.5 kg  
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## 374   
## 375 Less than 0.5 kg   
## 376 Less than 0.5 kg 0.5 - 1 kg  
## 377 Less than 0.5 kg Less than 0.5 kg  
## 378   
## 379   
## 380   
## 381 0.5 - 1 kg   
## 382   
## 383   
## 384   
## processed\_other other\_fish\_product  
## 1   
## 2   
## 3   
## 4   
## 5   
## 6   
## 7 No purchasing Tilapia   
## 8   
## 9   
## 10 No purchasing   
## 11 No purchasing   
## 12 No purchasing   
## 13 No purchasing   
## 14 No purchasing   
## 15   
## 16   
## 17   
## 18   
## 19   
## 20   
## 21   
## 22 No purchasing   
## 23 More than 2 kg   
## 24   
## 25   
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## 41   
## 42 1.5 - 2 kg   
## 43   
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## 95   
## 96 No purchasing   
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## 144   
## 145 No purchasing   
## 146   
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## 154   
## 155   
## 156 No purchasing   
## 157   
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## 169   
## 170   
## 171   
## 172 No purchasing   
## 173 No purchasing   
## 174   
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## 188   
## 189   
## 190 More than 2 kg Tilapia   
## 191   
## 192   
## 193   
## 194   
## 195   
## 196 No purchasing   
## 197   
## 198   
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## 202   
## 203   
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## 205   
## 206 1 - 1.5 kg   
## 207 More than 2 kg   
## 208   
## 209   
## 210 0.5 - 1 kg   
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## 235 More than 2 kg   
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## 267 More than 2 kg   
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## 302   
## 303 1 - 1.5 kg   
## 304   
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## 384   
## increasing\_barriers  
## 1 Expensive  
## 2 Fewer places to purchase, Expensive, Fish yield is low,   
## 3 Expensive  
## 4   
## 5 Expensive  
## 6 Expensive  
## 7 Fewer places to purchase, Expensive, Fish yield is low  
## 8 Fewer places to purchase  
## 9   
## 10 Fewer places to purchase, Expensive, Fish yield is low  
## 11 Fewer places to purchase, Expensive, Fish yield is low  
## 12 Fewer places to purchase, Expensive, Fish yield is low  
## 13 Expensive  
## 14 Expensive  
## 15 Expensive  
## 16 Expensive, Fish yield is low  
## 17   
## 18   
## 19   
## 20 Expensive  
## 21   
## 22 Expensive, Fish yield is low  
## 23 Expensive  
## 24 Expensive  
## 25 Expensive, Fish yield is low  
## 26 Expensive  
## 27 Expensive  
## 28 Less fishing these days  
## 29 Expensive  
## 30 Less preference  
## 31   
## 32 Expensive  
## 33 Expensive  
## 34 Expensive  
## 35   
## 36 Fish yield is low  
## 37   
## 38 Expensive  
## 39 Expensive  
## 40 Fish yield is low  
## 41 Expensive  
## 42 Expensive  
## 43 Less fishing these days  
## 44   
## 45 Less fishing these days  
## 46 Expensive  
## 47 Expensive  
## 48 Fish yield is low  
## 49 Expensive  
## 50 Fish yield is low  
## 51 Expensive  
## 52 Less fishing these days  
## 53   
## 54 Expensive  
## 55 Expensive  
## 56 Expensive  
## 57 Less preference  
## 58   
## 59 Expensive  
## 60 Expensive  
## 61 Expensive  
## 62 Expensive  
## 63 Expensive  
## 64 Expensive  
## 65 Expensive  
## 66 Expensive  
## 67 Expensive  
## 68 Less fishing these days  
## 69 Expensive  
## 70 Less fishing these days  
## 71 Expensive  
## 72 Expensive  
## 73 Expensive  
## 74 Expensive  
## 75 Expensive  
## 76 Expensive  
## 77 Expensive  
## 78 Expensive  
## 79 Expensive  
## 80 Fish yield is low  
## 81 Expensive  
## 82 Expensive  
## 83 Expensive  
## 84 Expensive  
## 85 Less fishing these days  
## 86   
## 87 Expensive  
## 88 Expensive  
## 89 Expensive  
## 90 Fewer places to purchase  
## 91 Fewer places to purchase  
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## 93 Expensive  
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## 96 Expensive  
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## 112 Expensive  
## 113 Expensive  
## 114 Expensive  
## 115 Expensive  
## 116 Expensive  
## 117 Expensive  
## 118 Expensive  
## 119 Fish yield is low  
## 120 Expensive  
## 121 Expensive  
## 122   
## 123 Expensive  
## 124 Expensive  
## 125   
## 126 Expensive  
## 127 Expensive  
## 128 Fewer places to purchase  
## 129 Less fishing these days  
## 130 Fish yield is low  
## 131 Expensive  
## 132 Expensive  
## 133 Expensive  
## 134 Expensive  
## 135 Expensive  
## 136 Expensive  
## 137 Expensive  
## 138 Expensive  
## 139 Expensive  
## 140 Expensive  
## 141 Expensive  
## 142 Less fishing these days, Fish yield is low  
## 143 Expensive  
## 144 Expensive  
## 145 Fewer places to purchase  
## 146 Expensive  
## 147   
## 148 Expensive, Less fishing these days  
## 149 Expensive  
## 150 Expensive  
## 151 Expensive  
## 152 Expensive  
## 153 Expensive  
## 154 Expensive  
## 155 Fewer places to purchase  
## 156 Expensive  
## 157 Expensive  
## 158 Expensive  
## 159 Expensive  
## 160 Expensive  
## 161 Expensive  
## 162 Expensive  
## 163 Expensive  
## 164 Less fishing these days  
## 165 Expensive  
## 166 Expensive  
## 167 Expensive  
## 168   
## 169 Expensive  
## 170   
## 171 Expensive, Fish yield is low, Less fishing these days  
## 172 Expensive  
## 173 Expensive  
## 174 Expensive  
## 175 Fish yield is low  
## 176 Expensive  
## 177 Expensive  
## 178 Expensive  
## 179 Less fishing these days  
## 180   
## 181 Not mentioned   
## 182 Expensive  
## 183 Less fishing these days  
## 184 Expensive  
## 185 Expensive  
## 186 Expensive  
## 187 Less fishing these days  
## 188 Expensive  
## 189 Not mentioned   
## 190 Expensive  
## 191 Expensive  
## 192 Expensive  
## 193 Expensive  
## 194 Expensive  
## 195 Expensive  
## 196 Expensive  
## 197 Less fishing these days  
## 198 Fewer places to purchase, Expensive  
## 199 Fewer places to purchase  
## 200 Fewer places to purchase  
## 201 Expensive  
## 202 Expensive  
## 203 Expensive  
## 204 Expensive  
## 205 Expensive  
## 206 Expensive  
## 207 Expensive  
## 208 Fish yield is low  
## 209 Expensive  
## 210 Expensive  
## 211 Expensive  
## 212 Fewer places to purchase  
## 213 Fish yield is low  
## 214 Expensive  
## 215 Expensive  
## 216 Not mentioned   
## 217 Expensive  
## 218 Expensive  
## 219 Expensive  
## 220 Expensive  
## 221   
## 222 Expensive  
## 223 Expensive  
## 224 Expensive  
## 225 Less fishing these days  
## 226   
## 227   
## 228 Expensive  
## 229 Expensive  
## 230 Expensive  
## 231 Less fishing these days  
## 232 Less fishing these days  
## 233 Less fishing these days  
## 234 Less fishing these days  
## 235 Expensive  
## 236 Expensive  
## 237 Less fishing these days  
## 238 Preparation time is high  
## 239 Expensive  
## 240 Fish yield is low  
## 241 Expensive  
## 242 Expensive  
## 243 Fish yield is low  
## 244 Expensive  
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## 246 Expensive  
## 247   
## 248   
## 249 Not mentioned   
## 250 Expensive  
## 251   
## 252 Expensive  
## 253 Expensive  
## 254   
## 255 Expensive  
## 256 Expensive  
## 257 Fish yield is low  
## 258 Expensive  
## 259 Expensive  
## 260 Expensive  
## 261 Expensive  
## 262 Expensive  
## 263 Expensive  
## 264 Expensive  
## 265 Expensive  
## 266 Expensive  
## 267 Expensive, Fish yield is low  
## 268 Fish yield is low  
## 269 Expensive  
## 270   
## 271 Fish yield is low  
## 272 Fish yield is low  
## 273   
## 274 Expensive  
## 275 Expensive  
## 276 Expensive  
## 277 Less fishing these days  
## 278 Expensive  
## 279 Expensive  
## 280 Expensive  
## 281 Expensive  
## 282   
## 283 Expensive  
## 284 Fish yield is low  
## 285 Expensive  
## 286 Expensive  
## 287 Expensive  
## 288 Expensive  
## 289 Expensive  
## 290 Expensive  
## 291 Expensive  
## 292 Fewer places to purchase  
## 293 Expensive  
## 294 Expensive  
## 295 Expensive  
## 296 Expensive  
## 297 Expensive  
## 298 Expensive  
## 299 Expensive  
## 300 Expensive  
## 301 Expensive  
## 302 Expensive  
## 303 Expensive  
## 304 Fewer places to purchase  
## 305 Expensive  
## 306 Expensive  
## 307 Less fishing these days  
## 308 Fewer places to purchase  
## 309 Less fishing these days  
## 310 Less fishing these days  
## 311 Fewer places to purchase  
## 312 Expensive  
## 313 Expensive  
## 314 Expensive  
## 315 Expensive  
## 316 Fewer places to purchase  
## 317 Expensive  
## 318 Fish yield is low  
## 319 Fish yield is low  
## 320 Expensive  
## 321 Expensive  
## 322 Expensive  
## 323 Expensive  
## 324 Expensive  
## 325 Fish yield is low  
## 326 Expensive  
## 327 Expensive  
## 328 Expensive  
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## 330 Expensive  
## 331 Expensive  
## 332 Expensive  
## 333 Expensive  
## 334 Expensive, Fish yield is low  
## 335   
## 336 Expensive  
## 337 Expensive  
## 338 Expensive  
## 339 Expensive  
## 340 Expensive  
## 341 Expensive  
## 342 Expensive  
## 343 Fewer places to purchase  
## 344 Expensive  
## 345 Expensive  
## 346 Expensive  
## 347 Expensive  
## 348 Fewer places to purchase  
## 349 Expensive  
## 350 Expensive  
## 351 Expensive  
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## 353 Expensive  
## 354 Expensive  
## 355   
## 356 Fewer places to purchase  
## 357 Expensive  
## 358 Expensive  
## 359 Expensive  
## 360 Fewer places to purchase  
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## 362 Expensive  
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## 365 Expensive  
## 366 Expensive  
## 367 Expensive  
## 368 Expensive  
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## 371 Expensive  
## 372 Expensive  
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## 374 Expensive  
## 375 Expensive  
## 376 Expensive  
## 377 Expensive  
## 378   
## 379 Expensive  
## 380   
## 381 Expensive  
## 382 Expensive  
## 383   
## 384   
## buying\_place allergies  
## 1 Fish stall, Fair No  
## 2 Fish stall No  
## 3 Fish stall No  
## 4   
## 5 Delivery vehicles No  
## 6 Fish stall, Directly from fishermen No  
## 7 Delivery vehicles No  
## 8 Delivery vehicles No  
## 9   
## 10 Delivery vehicles No  
## 11 Delivery vehicles No  
## 12 Fish stall, Delivery vehiclesc, Directly from fishermenc No  
## 13 Delivery vehicles No  
## 14 Delivery vehicles No  
## 15 Delivery vehicles No  
## 16 Delivery vehicles No  
## 17 Delivery vehicles   
## 18   
## 19   
## 20 Fish stall No  
## 21   
## 22 Fish stall, Delivery vehicles, Directly from fishermen No  
## 23 Delivery vehicles No  
## 24 Delivery vehicles No  
## 25 Delivery vehicles No  
## 26 Delivery vehicles No  
## 27 Delivery vehicles No  
## 28 Delivery vehicles No  
## 29 Delivery vehicles No  
## 30 Delivery vehicles No  
## 31 Not mentioned No  
## 32 Directly from fishermen No  
## 33 Directly from fishermen No  
## 34 Delivery vehicles No  
## 35 Not mentioned No  
## 36 Directly from fishermen No  
## 37 Wholesale No  
## 38 Delivery vehicles No  
## 39 Delivery vehicles No  
## 40 Directly from fishermen No  
## 41 Directly from fishermen No  
## 42 Fish stall No  
## 43 Directly from fishermen No  
## 44 Directly from fishermen No  
## 45 Directly from fishermen No  
## 46 Fair No  
## 47 Directly from fishermen No  
## 48 Not mentioned No  
## 49 Directly from fishermen No  
## 50 Not mentioned No  
## 51 Directly from fishermen No  
## 52 Delivery vehicles No  
## 53 Delivery vehicles No  
## 54 Directly from fishermen No  
## 55 Fish stall No  
## 56 Directly from fishermen No  
## 57 Delivery vehicles No  
## 58 Directly from fishermen No  
## 59 Directly from fishermen Yes  
## 60 Directly from fishermen No  
## 61 Delivery vehicles No  
## 62 Delivery vehicles No  
## 63 Directly from fishermen No  
## 64 Delivery vehicles No  
## 65 Delivery vehicles No  
## 66 Directly from fishermen No  
## 67 Directly from fishermen No  
## 68 Directly from fishermen No  
## 69 Wholesale No  
## 70 Directly from fishermen No  
## 71 Delivery vehicles No  
## 72 Delivery vehicles No  
## 73 Delivery vehicles No  
## 74 Directly from fishermen No  
## 75 Delivery vehicles No  
## 76 Directly from fishermen No  
## 77 Directly from fishermen No  
## 78 Directly from fishermen No  
## 79 Directly from fishermen No  
## 80 Directly from fishermen No  
## 81 Directly from fishermen No  
## 82 Directly from fishermen No  
## 83 Directly from fishermen No  
## 84 Directly from fishermen No  
## 85 Not mentioned No  
## 86   
## 87 Delivery vehicles Yes  
## 88 Directly from fishermen No  
## 89 Delivery vehicles No  
## 90 Delivery vehicles No  
## 91 Delivery vehicles No  
## 92 Delivery vehicles No  
## 93 Delivery vehicles No  
## 94 Directly from fishermen No  
## 95 Not mentioned No  
## 96 Fish stall No  
## 97 Delivery vehicles No  
## 98 Delivery vehicles No  
## 99 Delivery vehicles No  
## 100 Delivery vehicles No  
## 101 Delivery vehicles No  
## 102 Delivery vehicles No  
## 103 Delivery vehicles No  
## 104 Delivery vehicles No  
## 105 Delivery vehicles No  
## 106 Delivery vehicles No  
## 107 Delivery vehicles No  
## 108 Delivery vehicles No  
## 109 Delivery vehicles No  
## 110 Wholesale No  
## 111 Fair Yes  
## 112 Delivery vehicles No  
## 113 Fair No  
## 114 Delivery vehicles No  
## 115 Directly from fishermen No  
## 116 Delivery vehicles No  
## 117 Delivery vehicles No  
## 118 Delivery vehicles No  
## 119 Not mentioned No  
## 120 Directly from fishermen No  
## 121 Delivery vehicles No  
## 122   
## 123 Delivery vehicles No  
## 124 Directly from fishermen Yes  
## 125   
## 126 Directly from fishermen No  
## 127 Not mentioned No  
## 128 Delivery vehicles No  
## 129 Not mentioned No  
## 130 Directly from fishermen No  
## 131 Delivery vehicles, Fair No  
## 132 Directly from fishermen No  
## 133 Directly from fishermen No  
## 134 Directly from fishermen No  
## 135 Directly from fishermen No  
## 136 Delivery vehicles No  
## 137 Directly from fishermen No  
## 138 Directly from fishermen No  
## 139 Fish stall No  
## 140 Delivery vehicles No  
## 141 Delivery vehicles No  
## 142 Directly from fishermen No  
## 143 Wholesale No  
## 144 Delivery vehicles No  
## 145 Directly from fishermen No  
## 146 Wholesale No  
## 147   
## 148 Delivery vehicles No  
## 149 Not mentioned No  
## 150 Not mentioned No  
## 151 Directly from fishermen No  
## 152 Directly from fishermen No  
## 153 Directly from fishermen No  
## 154 Delivery vehicles No  
## 155 Directly from fishermen No  
## 156 Directly from fishermen No  
## 157 Directly from fishermen No  
## 158 Delivery vehicles No  
## 159 Directly from fishermen No  
## 160 Delivery vehicles No  
## 161 Delivery vehicles No  
## 162 Fish stall No  
## 163 Delivery vehicles No  
## 164 Not mentioned No  
## 165 Delivery vehicles No  
## 166 Fair No  
## 167 Delivery vehicles No  
## 168   
## 169 Fair No  
## 170 Delivery vehicles Yes  
## 171 Fish stall, Delivery vehicles, Directly from fishermen No  
## 172 Fish stall No  
## 173 Directly from fishermen No  
## 174 Directly from fishermen No  
## 175 Directly from fishermen No  
## 176 Fair No  
## 177 Fish stall No  
## 178 Directly from fishermen No  
## 179 Fish stall, Directly from fishermen No  
## 180   
## 181 Delivery vehicles Yes  
## 182 Delivery vehicles No  
## 183 Fish stall No  
## 184 Directly from fishermen No  
## 185 Delivery vehicles No  
## 186 Delivery vehicles No  
## 187 Directly from fishermen No  
## 188 Delivery vehicles No  
## 189 Not mentioned No  
## 190 Fish stall No  
## 191 Delivery vehicles, Fair No  
## 192 Fish stall No  
## 193 Directly from fishermen No  
## 194 Directly from fishermen No  
## 195 Delivery vehicles No  
## 196 Delivery vehicles No  
## 197 Directly from fishermen No  
## 198 Delivery vehicles, Fair No  
## 199 Delivery vehicles No  
## 200 Directly from fishermen No  
## 201 Directly from fishermen No  
## 202 Directly from fishermen No  
## 203 Directly from fishermen No  
## 204 Delivery vehicles No  
## 205 Directly from fishermen No  
## 206 Directly from fishermen No  
## 207 Not mentioned No  
## 208 Directly from fishermen Yes  
## 209 Fish stall, Directly from fishermen No  
## 210 Delivery vehicles No  
## 211 Directly from fishermen No  
## 212 Delivery vehicles No  
## 213 Delivery vehicles No  
## 214 Delivery vehicles No  
## 215 Directly from fishermen No  
## 216 Directly from fishermen No  
## 217 Fish stall No  
## 218 Delivery vehicles No  
## 219 Fair No  
## 220 Directly from fishermen No  
## 221   
## 222 Directly from fishermen No  
## 223 Delivery vehicles No  
## 224 Delivery vehicles No  
## 225 Directly from fishermen No  
## 226   
## 227   
## 228 Directly from fishermen No  
## 229 Directly from fishermen No  
## 230 Delivery vehicles No  
## 231 Directly from fishermen No  
## 232 Directly from fishermen No  
## 233 Directly from fishermen No  
## 234 Directly from fishermen No  
## 235 Delivery vehicles No  
## 236 Fish stall No  
## 237 Not mentioned No  
## 238 Directly from fishermen No  
## 239 Directly from fishermen No  
## 240 Not mentioned No  
## 241 Directly from fishermen No  
## 242 Delivery vehicles No  
## 243 Not mentioned No  
## 244 Directly from fishermen No  
## 245   
## 246 Delivery vehicles No  
## 247   
## 248   
## 249 Wholesale No  
## 250 Directly from fishermen No  
## 251   
## 252 Delivery vehicles No  
## 253 Delivery vehicles No  
## 254   
## 255 Directly from fishermen No  
## 256 Directly from fishermen No  
## 257 Not mentioned No  
## 258 Directly from fishermen No  
## 259 Directly from fishermen No  
## 260 Delivery vehicles No  
## 261 Directly from fishermen No  
## 262 Fish stall No  
## 263 Delivery vehicles No  
## 264 Not mentioned No  
## 265 Wholesale No  
## 266 Delivery vehicles No  
## 267 Directly from fishermen No  
## 268 Directly from fishermen No  
## 269 Directly from fishermen No  
## 270   
## 271 Not mentioned No  
## 272 Directly from fishermen No  
## 273   
## 274 Fish stall No  
## 275 Delivery vehicles No  
## 276 Directly from fishermen No  
## 277 Directly from fishermen No  
## 278 Delivery vehicles No  
## 279 Directly from fishermen No  
## 280 Delivery vehicles No  
## 281 Delivery vehicles No  
## 282   
## 283 Delivery vehicles No  
## 284 Directly from fishermen Yes  
## 285 Delivery vehicles No  
## 286 Delivery vehicles No  
## 287 Delivery vehicles No  
## 288 Delivery vehicles No  
## 289 Directly from fishermen No  
## 290 Delivery vehicles No  
## 291 Delivery vehicles No  
## 292 Delivery vehicles No  
## 293 Directly from fishermen No  
## 294 Directly from fishermen No  
## 295 Directly from fishermen No  
## 296 Not mentioned No  
## 297 Delivery vehicles No  
## 298 Delivery vehicles No  
## 299 Delivery vehicles No  
## 300 Fish stall No  
## 301 Delivery vehicles No  
## 302 Delivery vehicles No  
## 303 Wholesale No  
## 304 Delivery vehicles, Fair No  
## 305 Directly from fishermen No  
## 306 Delivery vehicles No  
## 307 Not mentioned No  
## 308 Directly from fishermen No  
## 309 Wholesale No  
## 310 Directly from fishermen No  
## 311 Fair No  
## 312 Delivery vehicles No  
## 313 Directly from fishermen No  
## 314 Delivery vehicles Yes  
## 315 Delivery vehicles No  
## 316 Directly from fishermen No  
## 317 Delivery vehicles No  
## 318 Directly from fishermen No  
## 319 Directly from fishermen No  
## 320 Directly from fishermen No  
## 321 Directly from fishermen No  
## 322 Directly from fishermen No  
## 323 Directly from fishermen No  
## 324 Directly from fishermen No  
## 325 Directly from fishermen No  
## 326 Directly from fishermen No  
## 327 Directly from fishermen No  
## 328 Delivery vehicles, Directly from fishermen No  
## 329   
## 330 Delivery vehicles No  
## 331 Fair No  
## 332 Directly from fishermen No  
## 333 Directly from fishermen No  
## 334 Delivery vehicles, Directly from fishermen No  
## 335 Not mentioned No  
## 336 Delivery vehicles No  
## 337 Directly from fishermen No  
## 338 Wholesale No  
## 339 Delivery vehicles No  
## 340 Directly from fishermen No  
## 341 Directly from fishermen No  
## 342 Fish stall No  
## 343 Delivery vehicles No  
## 344 Directly from fishermen No  
## 345 Delivery vehicles No  
## 346 Delivery vehicles No  
## 347 Fish stall No  
## 348 Fish stall No  
## 349 Directly from fishermen No  
## 350 Delivery vehicles No  
## 351 Directly from fishermen No  
## 352 Delivery vehicles No  
## 353 Wholesale No  
## 354 Delivery vehicles No  
## 355 Fish stall No  
## 356 Delivery vehicles No  
## 357 Delivery vehicles, Fair No  
## 358 Fish stall No  
## 359 Delivery vehicles No  
## 360 Delivery vehicles No  
## 361 Fish stall No  
## 362 Delivery vehicles No  
## 363 Directly from fishermen No  
## 364 Directly from fishermen No  
## 365 Fish stall No  
## 366 Delivery vehicles No  
## 367 Fish stall, Directly from fishermen No  
## 368 Directly from fishermen No  
## 369   
## 370   
## 371 Fish stall No  
## 372 Directly from fishermen No  
## 373   
## 374 Directly from fishermen No  
## 375 Fish stall No  
## 376 Fish stall No  
## 377 Delivery vehicles, Directly from fishermen No  
## 378   
## 379 Directly from fishermen Yes  
## 380   
## 381 Fish stall No  
## 382 Directly from fishermen No  
## 383   
## 384   
## allergy\_species symptoms amount\_g  
## 1 194.0  
## 2 388.0  
## 3 582.0  
## 4 NA  
## 5 194.0  
## 6 194.0  
## 7 970.0  
## 8 582.0  
## 9 NA  
## 10 242.5  
## 11 242.5  
## 12 145.5  
## 13 776.0  
## 14 48.5  
## 15 NA  
## 16 582.0  
## 17 NA  
## 18 NA  
## 19 NA  
## 20 582.0  
## 21 NA  
## 22 NA  
## 23 145.5  
## 24 NA  
## 25 145.5  
## 26 582.0  
## 27 145.5  
## 28 48.5  
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## 31 NA  
## 32 NA  
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## 34 145.5  
## 35 776.0  
## 36 145.5  
## 37 NA  
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## 39 NA  
## 40 145.5  
## 41 242.5  
## 42 194.0  
## 43 970.0  
## 44 NA  
## 45 242.5  
## 46 48.5  
## 47 194.0  
## 48 776.0  
## 49 48.5  
## 50 194.0  
## 51 NA  
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## 54 145.5  
## 55 145.5  
## 56 582.0  
## 57 NA  
## 58 970.0  
## 59 Hunga Hives NA  
## 60 NA  
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## 62 NA  
## 63 776.0  
## 64 194.0  
## 65 194.0  
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## 67 48.5  
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## 73 NA  
## 74 194.0  
## 75 NA  
## 76 776.0  
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## 78 48.5  
## 79 48.5  
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## 82 582.0  
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## 84 145.5  
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## 86 NA  
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## 89 145.5  
## 90 194.0  
## 91 NA  
## 92 582.0  
## 93 145.5  
## 94 582.0  
## 95 776.0  
## 96 388.0  
## 97 NA  
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## 99 194.0  
## 100 194.0  
## 101 194.0  
## 102 194.0  
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## 104 194.0  
## 105 145.5  
## 106 NA  
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## 108 194.0  
## 109 194.0  
## 110 194.0  
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## 113 145.5  
## 114 194.0  
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## 116 145.5  
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## 125 NA  
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## 127 582.0  
## 128 145.5  
## 129 970.0  
## 130 194.0  
## 131 NA  
## 132 776.0  
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## 134 NA  
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## 136 NA  
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## 140 582.0  
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## 153 NA  
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## 163 NA  
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## 166 194.0  
## 167 NA  
## 168 NA  
## 169 582.0  
## 170 Vomiting, Bloating NA  
## 171 194.0  
## 172 NA  
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## 174 194.0  
## 175 582.0  
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## 177 NA  
## 178 582.0  
## 179 NA  
## 180 NA  
## 181 Vomiting, Bloating NA  
## 182 NA  
## 183 48.5  
## 184 776.0  
## 185 582.0  
## 186 194.0  
## 187 NA  
## 188 194.0  
## 189 582.0  
## 190 194.0  
## 191 388.0  
## 192 194.0  
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## 194 194.0  
## 195 NA  
## 196 194.0  
## 197 242.5  
## 198 48.5  
## 199 NA  
## 200 NA  
## 201 NA  
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## 205 NA  
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## 207 776.0  
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## 210 NA  
## 211 776.0  
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## 215 194.0  
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## 218 NA  
## 219 145.5  
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## 237 194.0  
## 238 NA  
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## 243 145.5  
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## 253 776.0  
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## 256 NA  
## 257 145.5  
## 258 194.0  
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## 260 776.0  
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## 264 194.0  
## 265 776.0  
## 266 194.0  
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## 268 145.5  
## 269 NA  
## 270 NA  
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## 275 48.5  
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## 278 48.5  
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## 283 NA  
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## 291 NA  
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## 293 242.5  
## 294 242.5  
## 295 242.5  
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## 297 776.0  
## 298 145.5  
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## 300 776.0  
## 301 194.0  
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## 303 48.5  
## 304 NA  
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## 306 194.0  
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## 309 48.5  
## 310 194.0  
## 311 NA  
## 312 194.0  
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## 314 145.5  
## 315 NA  
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## 323 48.5  
## 324 582.0  
## 325 582.0  
## 326 194.0  
## 327 582.0  
## 328 145.5  
## 329 NA  
## 330 582.0  
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## 333 582.0  
## 334 NA  
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## 338 NA  
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## 340 145.5  
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## 342 776.0  
## 343 776.0  
## 344 48.5  
## 345 NA  
## 346 776.0  
## 347 NA  
## 348 NA  
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## 350 NA  
## 351 242.5  
## 352 194.0  
## 353 NA  
## 354 776.0  
## 355 194.0  
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## 357 776.0  
## 358 194.0  
## 359 194.0  
## 360 NA  
## 361 582.0  
## 362 NA  
## 363 582.0  
## 364 NA  
## 365 145.5  
## 366 NA  
## 367 NA  
## 368 145.5  
## 369 NA  
## 370 NA  
## 371 48.5  
## 372 48.5  
## 373 NA  
## 374 194.0  
## 375 776.0  
## 376 194.0  
## 377 194.0  
## 378 NA  
## 379 194.0  
## 380 NA  
## 381 776.0  
## 382 776.0  
## 383 NA  
## 384 NA