AllYears.r

Vishal

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library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(ggplot2)  
library(reshape2)  
library(ggpubr)

## Loading required package: magrittr

dataAll <- read.csv("D:\\Vishal\\III year\\Data Analytics\\Assignment I\\AllYears.csv")  
  
tail(dataAll)

## MethodofDelivery Below.15 X15.19 X20.24 X25.29 X30.34 X35.39 X40.44  
## 43 Forceps/Vacuum 0 367 3810 3249 1235 276 17  
## 44 Not Stated 0 0 0 0 0 0 0  
## 45 Natural 0 5965 132733 68831 8515 1532 226  
## 46 Caesarean 0 345 6087 3765 1166 267 19  
## 47 Forceps/Vacuum 0 51 432 239 53 11 3  
## 48 Not Stated 0 0 0 0 0 0 0  
## X45...Above Not.Stated Area Year  
## 43 2 0 Urban 2016  
## 44 0 0 Urban 2016  
## 45 99 0 Rural 2016  
## 46 1 0 Rural 2016  
## 47 0 0 Rural 2016  
## 48 0 0 Rural 2016

meltedData <- melt(dataAll)

## Using MethodofDelivery, Area as id variables

filter11 <- dataAll %>%  
 filter(Year == 2011)  
  
filter14 <- dataAll %>%  
 filter(Year == 2014)  
  
filter15 <- dataAll %>%  
 filter(Year == 2015)  
  
filter16 <- dataAll %>%  
 filter(Year == 2016)  
  
melt11 <- melt(filter11)

## Using MethodofDelivery, Area as id variables

melt14 <- melt(filter14)

## Using MethodofDelivery, Area as id variables

melt15 <- melt(filter15)

## Using MethodofDelivery, Area as id variables

melt16 <- melt(filter16)

## Using MethodofDelivery, Area as id variables

melt11\_f <- melt11 %>%  
 filter(value != 2011)   
  
melt14\_f <- melt14 %>%  
 filter(value != 2014)  
  
melt15\_f <- melt15 %>%  
 filter(value != 2015)  
  
melt16\_f <- melt16 %>%  
 filter(value != 2016)  
  
y1 <- ggplot(melt11\_f, aes(x = MethodofDelivery, y = value, label = value)) +  
 geom\_bar(aes(fill = variable), stat = "identity")+  
 facet\_wrap(~Area) +  
 theme(axis.text.x = element\_text(angle = 60, hjust = 1)) +  
 labs(title = "LIVE BIRTHS BY AGE OF MOTHER AND METHOD OF DELIVERY (RURAL & URBAN) - 2011")  
  
y2 <- ggplot(melt14\_f, aes(x = MethodofDelivery, y = value, label = value)) +  
 geom\_bar(aes(fill = variable), stat = "identity")+  
 facet\_wrap(~Area) +  
 theme(axis.text.x = element\_text(angle = 60, hjust = 1)) +  
 labs(title = "LIVE BIRTHS BY AGE OF MOTHER AND METHOD OF DELIVERY (RURAL & URBAN) - 2014")  
  
y3 <- ggplot(melt15\_f, aes(x = MethodofDelivery, y = value, label = value)) +  
 geom\_bar(aes(fill = variable), stat = "identity")+  
 facet\_wrap(~Area) +  
 theme(axis.text.x = element\_text(angle = 60, hjust = 1)) +  
 labs(title = "LIVE BIRTHS BY AGE OF MOTHER AND METHOD OF DELIVERY (RURAL & URBAN) - 2015")  
  
y4 <- ggplot(melt16\_f, aes(x = MethodofDelivery, y = value, label = value)) +  
 geom\_bar(aes(fill = variable), stat = "identity")+  
 facet\_wrap(~Area) +  
 theme(axis.text.x = element\_text(angle = 60, hjust = 1)) +  
 labs(title = "LIVE BIRTHS BY AGE OF MOTHER AND METHOD OF DELIVERY (RURAL & URBAN) - 2016")  
  
  
ggarrange(y1, y2, y3, y4,   
 labels = c("2011", "2014", "2015", "2016"),  
 ncol = 2, nrow = 2)

