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In [ ]: # Amazon Order
        library(readxl)
         amazon <- read_excel("orders_data.xlsx")</pre>
        # View the Structure of Amazon Order Data
         str(amazon)
        # Quick Summary
         summary(amazon)
        # Check for Missing Value
         colSums(is.na(amazon))
        ### Will do few analysis with Dataset
        # How is the order take places?
        table(amazon$cod)
         prop.table(table(amazon$cod))
        # 27% COD & 72% Online
        # iS return of order is depends on mode of delivery
        table(amazon$cod, amazon$order_status)
         # both way having similar values so it's not really depends on mode of delivery
        #install.packages("dplyr")
        library(dplyr)
         # Sales Trend (Sales Pattern over the Month)
         sales_by_month = amazon %>%
           select(item_total,month) %>%
           group_by(month) %>%
           summarise(item total=sum(item total))
         barplot(sales_by_month$item_total, names.arg = sales_by_month$month)
         # More detailed
         sales_by_month_year = amazon %>%
           select(item_total,month,year)%>%
           group_by(month,year) %>%
           summarise(sales=sum(item_total))
         sales_by_month_year <- sales_by_month_year[order(sales_by_month_year$year,</pre>
                                                          sales by month year $month), ]
         sales_by_month_year$MonthYear <- paste(sales_by_month_year$month,</pre>
                                                 sales_by_month_year$year,
                                                 sep = '-')
         barplot(sales_by_month_year$sales,
                 names.arg = sales_by_month_year$MonthYear,
                 main="Sales Trend over the month",
                 xlab = "Month-Year",
                 ylab = "Sales",
                 col=rainbow(length(sales_by_month_year$MonthYear)))
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# Which day of the month draw more sales?
dec 2021 <- subset(amazon, month==12 & year==2021)</pre>
sales by day = dec 2021 %>%
  select(day, item_total) %>%
  group_by(day) %>%
  summarise(sales=sum(item total))
barplot(sales_by_day$sales,
        names.arg = sales_by_day$day,
        main="Sales Trend For Dec-2021",
        xlab = "Day",
        ylab = "Sales",
        col=rainbow(length(sales_by_day$day)))
# Find out from which state draw more sales?
sales_by_state <-</pre>
  amazon %>%
  select(ship state, item total) %>%
  group_by(ship_state) %>%
  summarise(sales=sum(item_total))
sales_by_state <-</pre>
  sales by state[order(sales by state$sales, decreasing = TRUE),]
# Top 5 States
head(sales by state,5)
#calculate the sales percentage
sales_by_state$sales_per <- (sales_by_state$sales / sum(sales_by_state$sales)) * 100
sales_by_state$sales_per <- round(sales_by_state$sales_per,2)</pre>
sales_by_state$state_with_per <- paste(sales_by_state$ship_state,</pre>
                                        sales_by_state$sales_per,
                                        sep = "-")
top_state = head(sales_by_state,5)
pie(top_state$sales_per,
    top state$state with per,
    main="Top 5 States % of Sales",
    col=rainbow(5))
# How many orders got return in Maharastra
mah_sales <- subset(amazon, ship_state=="MAHARASHTRA")</pre>
table(mah sales$order status)
# What is the delivery mode of Return order
table(mah_sales$order_status, mah_sales$cod)
```