project

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```
library(tidyr)
library(forecast)
## Registered S3 method overwritten by 'quantmod':
##
     method
                       from
     as.zoo.data.frame zoo
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
electricity_df<-read.csv(file="Electricity_Sales_to_Ultimate_Customers_Total_Monthly.csv")
head(electricity df)
##
      Month Series.ID..TOTAL.ESTCPUS.M.Million.Kilowatthours
## 1 May-22
                                                      307105.7
## 2 Apr-22
                                                     283846.5
## 3 Mar-22
                                                     303490.0
## 4 Feb-22
                                                     304272.3
## 5 Jan-22
                                                     336691.8
## 6 Dec-21
                                                     306581.2
electricity_new<-separate(electricity_df, col=Month, into=c('Month', 'Year'), sep='-')</pre>
head(electricity_new)
     Month Year Series.ID..TOTAL.ESTCPUS.M.Million.Kilowatthours
##
## 1
       May
             22
                                                          307105.7
## 2
       Apr
             22
                                                          283846.5
## 3
       Mar
             22
                                                          303490.0
## 4
      Feb
            22
                                                          304272.3
## 5
      Jan
            22
                                                          336691.8
## 6
                                                          306581.2
      Dec
             21
```

```
electricity_new$Year <-as.numeric(electricity_new$Year)</pre>
electricity_new<-electricity_new %>%
mutate(electricity_new, YEAR = ifelse(Year %in% 0:9,paste(200, Year, sep=""),
                                     ifelse(Year %in% 10:22,paste(20, Year, sep=""),
                                     ifelse(Year %in% 73:99, paste(19, Year, sep=""),""))))
head(electricity_new)
     Month Year Series.ID..TOTAL.ESTCPUS.M.Million.Kilowatthours YEAR
##
## 1
       May
                                                        307105.7 2022
## 2
      Apr
            22
                                                        283846.5 2022
## 3
           22
                                                        303490.0 2022
      Mar
## 4
      Feb
           22
                                                        304272.3 2022
## 5
      Jan 22
                                                        336691.8 2022
## 6 Dec 21
                                                        306581.2 2021
```