# Example Air Visit Data Format

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## 1. Example: Source Data

I am importing and reformatting the source data to a useful format for time series.

### 2. Example: Define Time Series

I am converting the data into a time series and defining the time series object.

```
newdata=as.ts(visit.df[, -c(1,2,3)], start=c(2016,1,1), frequency=365)
```

#### 3. Example: Simple Imputation

I am performing a quick and simple imputation for demonstration purposes.

```
for(i in 1:ncol(newdata)){
   newdata[is.na(newdata[,i]), i] <- mean(newdata[,i], na.rm = TRUE)
}</pre>
```

#### 4. Example: Simple Forecasting (ETS)

I am using the for loop to forecast for each store id for 39 days.

```
myf2=round(forecast(ets(newdata[,1]),39)$mean,0)
#simple ETS
for (i in 2:829) {
   myf= round(forecast(ets(newdata[,i]),39)$mean,0)
   myf2=cbind(myf,myf2)
}
colnames(myf2)=colnames(newdata)
```

#### 5. Example: Final Submission Data

I am converting the forecast result to a data frame with the row id. Next, I format the data into a format of a submission file. Lastly, I save the file in a CSV format.