table

```
library(tidyverse)
## -- Attaching packages
## v ggplot2 3.0.0
                       v purrr
                                  0.2.5
## v tibble 1.4.2
                                  0.7.6
                       v dplyr
## v tidyr
             0.8.1
                       v stringr 1.3.1
## v readr
             1.1.1
                       v forcats 0.3.0
## -- Conflicts -----
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                     masks stats::lag()
library(knitr)
library(kableExtra)
library(tibble)
num_folds = 10
wae <- tibble(</pre>
    model_one = rep(0, num_folds),
    model_two = rep(0, num_folds),
    model_three = rep(0, num_folds)
)
test.results = cbind(Fold=rep(1:num_folds), wae)
kable(test.results, col.names = c('Fold', 'Naive', 'SNaive', 'Dynamic')) %>%
  kable_styling(bootstrap_options = c("striped"), full_width = F)
```

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Fold	Naive	SNaive	Dynamic
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0

- Run SVD (first 12 components) on each by-department sales data and then transform it back to the original matrix size.
- Missing value handling
 - Weekly Sales: replace missing value with 0.
 - IsHoliday: search through the training data to find the IsHoliday of same date. See function: fill_missing_holiday

Note: my testing show more sophisticated imputation approach won't improve the performance.