Hand picking similar behaving group of customers to check clustering results

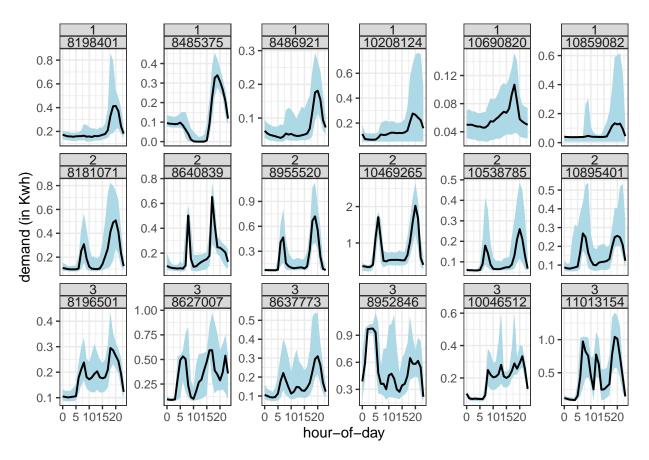


Figure 1: Median (black) and quartile deviation (blue region) of hourly demand drawn for few customers showing similar behaviors. Roughly speaking, Design 1 has one evening peak, Design 2 has two peaks and Design 3 has three peaks in a day. Each of design 1, 2 and 3 have six similar behaving customers resulting to 18 time series. We want our clustering results to group each of the designs together.

```
left_join(v2) %>%
 mutate(dist = dist_dom) %>%
   pivot_wider(-c(3, 4),
            names_from = customer_to,
           values_from = dist) %>%
rename("customer_id" = "customer_from")
## # A tibble: 3 \times 2
## group n
## <int> <int>
## 1
     1 7
## 2
      2
            8
## 3
      3
## # A tibble: 7 x 2
## group customer_id
## <int> <int>
## 1 1
           8181071
## 2
      1 8196501
## 3
    1 8198401
## 4
      1
          8485375
     1 10469265
## 5
## 6
     1 10859082
## 7
     1 11013154
## # A tibble: 8 x 2
## group customer_id
## <int> <int>
## 1 2 8486921
## 2
      2 8637773
## 3
      2 8640839
## 4
      2 8952846
## 5
      2 10046512
      2 10538785
## 6
## 7
      2 10690820
## 8
      2 10895401
## # A tibble: 3 x 2
## group customer_id
## <int> <int>
## 1 3 8627007
## 2 3 8955520
```

3 3 10208124