full and complete table preview

This report just inlcude the full data(method1) and complete data(method). The purpose for this report is to show the final table formation and discuss the potential coefficient for relative bias(rho).

I ran two simulations this time. Different between those two is the intercept. For first simulation, I set the intercept to 2 when I generate the full data. i.e. $Y = 2 + \beta \times x$. For second simulation, I set the intercept to 0 when I generate the full data.i.e. $Y = 0 + \beta \times x$.

The sample size is 250, the simulation time is 100. True beta is c(1.5,2,3,rep(0,5)), k for cross validation is 5.

The L_inf_norm and rho is the average of all simulation as what we discussed. When rho = 0, it means we do not force any beta estimation to 0.

The first reslut is(intercept=2)

```
##                  L_inf_norm        rho tn0en0 tn0e0 t0e0 t0en0
## Method1_full      0.1127354 0.00000000      3     0 3.11  1.89
## 1 * rho           0.1127354 0.05217655      3     0 4.00  1.00
## 0.5 * rho         0.1127354 0.02608828      3     0 3.62  1.38
## 2 * rho           0.1116550 0.10435311      3     0 4.58  0.42
## Method2_complete  0.1462026 0.00000000      3     0 3.04  1.96
## 1 * rho           0.1462026 0.06780955      3     0 4.17  0.83
## 0.5 * rho         0.1462026 0.03390478      3     0 3.76  1.24
## 2 * rho           0.1456387 0.13561911      3     0 4.64  0.36
```

The second reslut is(intercept=0)

```
##                  L_inf_norm        rho tn0en0 tn0e0 t0e0 t0en0
## Method1_full      0.1220139 0.00000000      3     0 3.10  1.90
## 1 * rho           0.1220139 0.06158823      3     0 4.32  0.68
## 0.5 * rho         0.1220139 0.03079412      3     0 3.78  1.22
## 2 * rho           0.1218466 0.12317646      3     0 4.69  0.31
## Method2_complete  0.1610341 0.00000000      3     0 2.65  2.35
## 1 * rho           0.1610341 0.07812345      3     0 4.06  0.94
## 0.5 * rho         0.1610341 0.03906172      3     0 3.51  1.49
## 2 * rho           0.1607484 0.15624690      3     0 4.59  0.41
```