data<-read.csv(“data.csv”)

data2<-read.csv(“LME.csv”)

library("Hmisc")

library("lme4")

library("lmtest")

library(“effects”)

library("r2glmm")

#correlation matrix

rcorr(as.matrix(data))

#mixed-effects model

Data$WORD<-as.factor(Data$WORD)

model1<-lmer(READING~WORD\*TRAINING+AGE+(1|SUBJECT), REML=FALSE, data=data2)

model2<-lmer(READING~WORD+TRAINING+AGE+(1|SUBJECT), REML=FALSE, data=data2)

model3<-lmer(READING~WORD+TRAINING+(1|SUBJECT), REML=FALSE, data=data2)

model4<-lmer(READING~WORD+(1|SUBJECT), REML=FALSE, data=data2)

model5<-lmer(READING~ (1|SUBJECT), REML=FALSE, data=data2)

lrtest (model1, model2)

lrtest (model2, model3)

lrtest (model3, model4)

lrtest (model4, model5)

model1<-lmer(READING~WORD\*CONSOLIDATION+AGE+(1|SUBJECT), REML=FALSE, data=data2)

model2<-lmer(READING~WORD+ CONSOLIDATION +AGE+(1|SUBJECT), REML=FALSE, data=data2)

model3<-lmer(READING~ WORD\* CONSOLIDATION +(1|SUBJECT), REML=FALSE, data=data2)

lrtest (model1, model2)

lrtest (model1, model3)

plot(allEffects(model3))

M1<-lm(data$Scaled\_Real~data$Consolidation)

M2<-lm(data$Scaled\_Nonword~data$Consolidation)