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data<-read_excel(wfile1,sheet=wsheet1,col_types="text")
d2<-filter(data,!grepl( "chicken", data$Species, fixed = TRUE) &
            !grepl( "NA", data$Species, fixed = TRUE) &
            (as.numeric(data$Value)>=0 | data$Value %in%
c("Active","Inactive","Flag-Omit","QC-Omit")))
d3<-d2[!duplicated(d2[c(4,7)]),]

n1<- d3 %>% group_by(d3$CASRN) %>%
  summarize(n())
colnames(n1)<-c('CAS','n')

n2<- d3 %>% group_by(d3$'QSAR Ready ID') %>%
  summarize(n())
colnames(n2)<-c('Inchikey','n')

all1<-left_join(filter(tlist,!is.na(tlist$CAS)),n1,by='CAS')
all2<-left_join(filter(tlist,is.na(tlist$CAS)),n2,by='Inchikey')
all<-rbind(all1,all2)
all<-all[order(all$CID,all$CAS,na.last=FALSE),]

for (i in 1:dim(all)[1]) {
  all$exp[i]<-all$n[i]
  all$e_conn[i]<-all$n[i]}
all[,5:ncol][is.na(all[,5:ncol])] <- 0

wb <- loadWorkbook(outfile)
writeData(wb, sheet = "Webice", all[1:ncol], colNames = F,startRow=3)
saveWorkbook(wb,outfile,overwrite = T)

```