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#Chapter 4: Other Database Connectivity
#BioSense RMySQL Database Connection for Counties
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require("RMySQL")

#change the RStudio working directory to reflect the location of the "line_level_export.csv" file

#specify username and password in this section.  connections below will use those settings.
username <- "tester";
password <-  "test123!";
startdate <- "'2016-05-31'"
enddate <- "'2016-06-05'";

county_1<-"Pima"
county_2<-"Pima_CC"
county_3<-"Pima_DX"

#tech specs
con<-dbConnect(dbDriver("MySQL"), user=username, password=password,
dbname="LockerDB", host="data3.biosen.se")
con1<-dbConnect(dbDriver("MySQL"), user=username, password=password,
dbname="BinLocker", host="adm2.biosen.se")


#below is the name of the txt file imported (as it appears in the data window)
linelist <- read.csv("line_level_export.csv")

queryString <- paste("select
Earliest_Date,Unique_Patient_ID,Medical_Record_Number,Chief_Complaint,Diagnosis_Text,Zi
p_Code,Facility_Name FROM ", county_1, " where Create_Date between ", startdate, "and ",
enddate, sep = "")
queryString1 <- paste("select patientid,analysisvisitid,binvalue,facility  FROM ", county_2, "
where dateofvisit between ", startdate, "and ", enddate, sep = "")
queryString2 <- paste("select patientid,analysisvisitid,binvalue,facility  FROM ", county_3, "
where dateofvisit between ", startdate, "and ", enddate, sep = "")

dfDataIn<- dbGetQuery(con, queryString)
dfDataInPC<-dbGetQuery(con1, queryString1)
dfDataInDX<-dbGetQuery(con1, queryString2)

subsetvar<- substring(linelist$Analysis.Visit.ID,2)
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subPC<-dfDataInPC [which(as.character(dfDataInPC$analysisvisitid) %in% subsetvar ),]
subDX<-dfDataInDX [which(as.character(dfDataInDX$analysisvisitid) %in% subsetvar ),]

#final query aka reveal
combined <-rbind(subPC,subDX)
fulldata<-merge(dfDataIn,combined,by.x="Unique_Patient_ID", by.y="patientid")
dfDataInsub<-fulldata[,c("analysisvisitid","Unique_Patient_ID","Medical_Record_Number","Facili
ty_Name","facility")]
tab2<-fulldata[!duplicated(dfDataInsub),]
tab2
write.csv(tab2, file="MRN_test_EXPORT.csv", row.names = FALSE)
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