**Connecting R Studio and MongoDB (Example Queries)**

**#One time installation only**

install.packages("mongolite")

**#Always start with library()**

library(mongolite)

**#Create new database and collection**

m=mongo("Faculty",url = "mongodb://localhost:27017/DS")

**#Insert one row at a time**

m$insert('{"Sl.No":1,"Name":"Dr. Anju","Designation":"Asst Prof","Gender":"F"}')

m$insert('{"Sl.No":2,"Name":"Dr. Varsha","Designation":"Asst Prof","Gender":"F"}')

m$insert('{"Sl.No":3,"Name":"Dr. Manu","Designation":"Asso Prof","Gender":"M"}')

**#Some Operations on collection “Faculty”**

m$find('{"Gender":"F"}')

m$count()

m$find('{"Name":"Dr. Anju"}')

m$find('{}') # Displays all rows of collection “Faculty”

m$remove('{"Gender":"M"}') # Removes all rows of collection “Faculty” with gender “M”

m$update('{"Name":"Dr. Anju"}','{"$set":{"Designation":"Asso Prof"}}')

**#Create new collection “Student” with same database**

s=mongo("Student",url = "mongodb://localhost:27017/DS")

s$insert('{"RegNo":12222,"Name":"Gokul","Class/Section":"6B","Gender":"m"}')

**#Connecting with already existing collection and database**

t=mongo(collection="sem6B",db="DSE",url="mongodb://localhost:27017")

s=mongo(collection="Student",db="DS",url="mongodb://localhost:27017")

**#Operations on Existing collections and databases**

t$find('{"Gender":"M"}')

s$count()

s$remove('{"Gender":"m"}')

s$insert('{"RegNo":12223,"Name":"Arya","Class/Section":"6A","Gender":"F"}')

s$update('{"Gender":"F"}','{"$set":{"Marks":90}}')

s$find('{}')

s$update('{"Gender":"m"}','{"$set":{"Gender":"M"}}')

**#One variable should be connected to each collection**

**Here s is connected to “student” collection, m is connected to “Faculty” collection, t is connected to “sem6B” collection.**

**#Add new column/field to existing collection (Marks column is added here)**

s$insert('{"RegNo":12224,"Name":"Varun","Class/Section":"6B","Gender":"M","Marks":61}')

**#Sorting**

#Ascending Order

s$find(sort = '{"Marks":1}')

#Descending Order

s$find(sort = '{"Marks":-1}')