

Connecting to and Extracting Data from MongoDB Using RStudio

1. Loading data from the collection "sales" of sample_Supplies from MongoDB

```
install.packages("mongolite")
library(mongolite)

connection_string = 'mongodb+srv://username:password@comp2031-8031.p8bsy81.mongodb.net/?retryWrites=true&w=majority&appName=COMP2031-8031'
```

2. Connect to the "sales" collection in the "sample_supplies" database

```
sales_collection = mongo(collection="sales", db="sample_supplies",
url=connection_string)

sales_collection$count() # Count the number of documents in the collection to
check with data on MongoDB

alldata <- sales_collection$find('{}') # Find all documents in the collection
```

3. Getting data from MongoDB

```
demox <- sales_collection$aggregate('[
  { "$unwind": "$items" },
  { "$project": {
    "_id": 0,
    "saleId": "$_id",
    "storeLocation": 1,
    "saleDate": 1,
    "items.name": 1,
    "items.price": 1,
    "items.quantity": 1,
    "customerGender": "$customer.gender",
    "customerAge": "$customer.age",
    "customerEmail": "$customer.email",
    "customerSatisfaction": "$customer.satisfaction",
    "couponUsed": 1,
    "purchaseMethod": 1
  }}
]')
```

4. Data frame the data

```
demox <- as.data.frame(demox)
```

5. Save file to the folder

```
write.table(demox, file="C:/Users/MinhNguyen/Downloads/saledata.csv",
row.names = F, sep = ",")
```