**Select() Function Assignment**

**Problem Statement:**

Sam has successfully completed his first semester. In the second semester he will be learning some data manipulation operations. Sam’s first exam would be on the select() function from the dplyr package.

Questions:

1. Extract these individual columns:

a. Extract the 5th column & store it in ‘customer\_5’

> select(customer\_churn, 5)-> customer\_5

> head(customer\_5)

Dependents

1 No

2 No

3 No

4 No

5 No

6 No

b. Extract the 15th column & store it in ‘customer\_15’

> select(customer\_churn, 15)-> customer\_15

> head(customer\_15)

StreamingMovies

1 No

2 No

3 No

4 No

5 No

6 Yes

2. Extract the column numbers 3,6,9,12,15 & 18 and store the result in ‘customer\_3\_multiple’

> select(customer\_churn, 3,6,9,12,15,18) -> customer\_3\_multiple

> head(customer\_3\_multiple)

SeniorCitizen tenure InternetService DeviceProtection StreamingMovies PaymentMethod

1 0 1 DSL No No Electronic check

2 0 34 DSL Yes No Mailed check

3 0 2 DSL No No Mailed check

4 0 45 DSL Yes No Bank transfer (automatic)

5 0 2 Fiber optic No No Electronic check

6 0 8 Fiber optic Yes Yes Electronic check

3. Extract all the columns from column number-10 to column number-20 and store the result in

‘c\_10\_20’

> select(customer\_churn, 10:20) -> c\_10\_20

> head(c\_10\_20)

OnlineSecurity OnlineBackup DeviceProtection TechSupport StreamingTV StreamingMovies Contract

1 No Yes No No No No Month-to-month

2 Yes No Yes No No No One year

3 Yes Yes No No No No Month-to-month

4 Yes No Yes Yes No No One year

5 No No No No No No Month-to-month

6 No No Yes No Yes Yes Month-to-month

PaperlessBilling PaymentMethod MonthlyCharges TotalCharges

1 Yes Electronic check 29.85 29.85

2 No Mailed check 56.95 1889.50

3 Yes Mailed check 53.85 108.15

4 No Bank transfer (automatic) 42.30 1840.75

5 Yes Electronic check 70.70 151.65

6 Yes Electronic check 99.65 820.50

4. Extract all the columns which start with letter ‘P’ & store it in ‘customer\_P’

> select(customer\_churn, starts\_with("p")) -> customer\_p

> head(customer\_p)

Partner PhoneService PaperlessBilling PaymentMethod

1 Yes No Yes Electronic check

2 No Yes No Mailed check

3 No Yes Yes Mailed check

4 No No No Bank transfer (automatic)

5 No Yes Yes Electronic check

6 No Yes Yes Electronic check

5. Extract all the columns which end with letter ‘s’ & store it in ‘customer\_s’

> select(customer\_churn, ends\_with('s')) -> customer\_s

> head(customer\_s)

Dependents MultipleLines StreamingMovies MonthlyCharges TotalCharges

1 No No phone service No 29.85 29.85

2 No No No 56.95 1889.50

3 No No No 53.85 108.15

4 No No phone service No 42.30 1840.75

5 No No No 70.70 151.65

6 No Yes Yes 99.65 820.50