

# UCS 538 – Data Science Fundamentals

## Assignment – 4.1

Q1. Create a Data Frame (DF) for the given dataset in Table 1.

Table 1. A patient dataset

PatientID	AdmDate	Age	Diabetes	Status
1	10/15/2009	25	Type1	Poor
2	11/01/2009	34	Type2	Improved
3	10/21/2009	28	Type1	Excellent
4	10/28/2009	52	Type1	Poor

Q2. Perform the following operation on DF.

- Extract PatientID and Age in Subset 1.
- Identify the Type1 patients from DF.
- Count the patient of Poor status.
- Print the summary of the DF.
- Find the average age of patient having Diabetes.
- Input more patient data from Keyboard.

Q3. Create a list named MyList having *title* “My First List” and *criteria having* following items:

- Age vector a = (12, 14,16, 20)
- A two dimensional matrix with 5 rows.
- A score vector with values s = (‘First’, ‘Second’, ‘Third’)  
Print *MyList*, *criteria*, and vector *a*.