DATA DICTIONARY - COURSERA COURSE 3 - GETTING AND CLEANING DATA, COURSE PROJECT

using the Human Activity Recognition Using Smartphones Dataset from the UCI Machine Learning Repository

This dictionary describes the tidy data set created in step 5 of the project. It contains the mean of each variable from the extracted data set described in steps 1 and 2. The extracted variables include only measurements on the mean() and std() variable by activity and subject.

subjectCode,	values 1-30 representing the subject in the group of 30 volunteers performing the activities
activityDescription,	Activity Description; 1. WALKING, 2. WALKING_UPSTAIRS, 3. WALKING_DOWNSTAIRS, 4. SITTING, 5. STANDING, 6. LAYING

THE DATA VALUES FOR THE NEXT 66 VARABLES ARE THE MEAN OF THE RESPECTIVE SUBJECT, ACTIVITY GROUPING. EACH VARIABLE CONTAINS SIX READINGS FOR EACH OF THE 30 SUBJECTS.

tBodyAcc-mean()-X,	Mean body motion component - Acceleration in the X direction, time domain
tBodyAcc-mean()-Y,	Mean body motion component - Acceleration in the Y direction, time domain
tBodyAcc-mean()-Z,	Mean body motion component - Acceleration in the Z direction, time domain
tGravityAcc-mean()-X,	Mean Gravity component - Acceleration in the X direction, time domain
tGravityAcc-mean()-Y,	Mean Gravity component - Acceleration in the Y direction, time domain
tGravityAcc-mean()-Z,	Mean Gravity component - Acceleration in the Z direction, time domain
tBodyAccJerk-mean()-X,	Mean Body Acceleration Jerk - in the X direction, time domain
tBodyAccJerk-mean()-Y,	Mean Body Acceleration Jerk - in the Y direction, time domain
tBodyAccJerk-mean()-Z,	Mean Body Acceleration Jerk - in the Z direction, time domain
tBodyGyro-mean()-X,	Mean Body Gyroscope Signal - in the X direction, time domain
tBodyGyro-mean()-Y,	Mean Body Gyroscope Signal - in the Y direction, time domain
tBodyGyro-mean()-Z,	Mean Body Gyroscope Signal - in the Z direction, time domain
tBodyGyroJerk-mean()-X,	Mean Body Gyroscope Jerk Signal - in the X direction, time domain
tBodyGyroJerk-mean()-Y,	Mean Body Gyroscope Jerk Signal - in the Y direction, time domain
tBodyGyroJerk-mean()-Z,	Mean Body Gyroscope Jerk Signal - in the Z direction, time domain
tBodyAccMag-mean(),	Mean Body Acceleration Magnitude, time domain
tGravityAccMag-mean(),	Mean Gravity Acceleration Magnitude, time domain

tBodyAccJerkMag-mean(), Mean Body Acceleration Jerk Magnitude, time domain

tBodyGyroMag-mean(), Mean Body Gyroscope Magnitude, time domain

tBodyGyroJerkMag-mean(),Mean Body Gyroscope Jerk Magnitude, time domain

fBodyAcc-mean()-X, Mean Body Acceleration in the X direction, frequency domain

fBodyAcc-mean()-Y, Mean Body Acceleration in the Y direction, frequency domain

fBodyAcc-mean()-Z, Mean Body Acceleration in the Z direction, frequency domain

fBodyAccJerk-mean()-X, Mean Body Acceleration Jerk in the X direction, frequency domain

fBodyAccJerk-mean()-Y, Mean Body Acceleration Jerk in the Y direction, frequency domain

fBodyAccJerk-mean()-Z, Mean Body Acceleration Jerk in the Z direction, frequency domain

fBodyGyro-mean()-X, Mean Body Gyroscope Signal - in the X direction, Frequency domain

fBodyGyro-mean()-Y, Mean Body Gyroscope Signal - in the Y direction, Frequency domain

fBodyGyro-mean()-Z, Mean Body Gyroscope Signal - in the Z direction, Frequency domain

fBodyAccMag-mean(), Mean Body Acceleration Magnitude, Frequency domain

fBodyBodyAccJerkMag-mean(), Mean Body Acceleration Jerk Magnitude, Frequency domain

fBodyBodyGyroMag-mean(), Mean Body Gyroscope Magnitude, Frequency domain

fBodyBodyGyroJerkMag-mean(), Mean Body Gyroscope Jerk Magnitude, Frequency domain

tBodyAcc-std()-X, Std Dev body motion component - Acceleration in the X direction, time domain

tBodyAcc-std()-Y, Std Dev body motion component - Acceleration in the Y direction, time domain

tBodyAcc-std()-Z, Std Dev body motion component - Acceleration in the Z direction, time domain

tGravityAcc-std()-X, Std Dev Gravity component - Acceleration in the X direction, time domain

tGravityAcc-std()-Y, Std Dev Gravity component - Acceleration in the Y direction, time domain

tGravityAcc-std()-Z, Std Dev Gravity component - Acceleration in the Z direction, time domain

tBodyAccJerk-std()-X, Std Dev Body Acceleration Jerk - in the X direction, time domain

tBodyAccJerk-std()-Y, Std Dev Body Acceleration Jerk - in the Y direction, time domain

tBodyAccJerk-std()-Z, Std Dev Body Acceleration Jerk - in the Z direction, time domain

tBodyGyro-std()-X, Std Dev Body Gyroscope Signal - in the X direction, time domain

tBodyGyro-std()-Y, Std Dev Body Gyroscope Signal - in the Y direction, time domain

tBodyGyro-std()-Z, Std Dev Body Gyroscope Signal - in the Z direction, time domain

tBodyGyroJerk-std()-X, Std Dev Body Gyroscope Jerk Signal - in the X direction, time domain

tBodyGyroJerk-std()-Y, Std Dev Body Gyroscope Jerk Signal - in the Y direction, time domain

tBodyGyroJerk-std()-Z, Std Dev Body Gyroscope Jerk Signal - in the Z direction, time domain

tBodyAccMag-std(), Std Dev Body Acceleration Magnitude, time domain

tGravityAccMag-std(), Std Dev Gravity Acceleration Magnitude, time domain

tBodyAccJerkMag-std(), Std Dev Body Acceleration Jerk Magnitude, time domain

tBodyGyroMag-std(), Std Dev Body Gyroscope Magnitude, time domain

tBodyGyroJerkMag-std(), Std Dev Body Gyroscope Jerk Magnitude, time domain

fBodyAcc-std()-X, Std Dev Body Acceleration in the X direction, frequency domain

fBodyAcc-std()-Y, td Dev Body Acceleration in the Y direction, frequency domain

fBodyAcc-std()-Z, Std Dev Body Acceleration in the Z direction, frequency domain

fBodyAccJerk-std()-X, Std Dev Body Acceleration Jerk in the X direction, frequency domain

fBodyAccJerk-std()-Y, Std Dev Body Acceleration Jerk in the Y direction, frequency domain

fBodyAccJerk-std()-Z, Std Dev Body Acceleration Jerk in the Z direction, frequency domain

fBodyGyro-std()-X, Std Dev Body Gyroscope Signal - in the X direction, Frequency domain

fBodyGyro-std()-Y, Std Dev Body Gyroscope Signal - in the Y direction, Frequency domain

fBodyGyro-std()-Z, Std Dev Body Gyroscope Signal - in the Z direction, Frequency domain

fBodyAccMag-std(), Std Dev Body Acceleration Magnitude, Frequency domain

fBodyBodyAccJerkMag-std(), Std Dev Body Acceleration Jerk Magnitude, Frequency domain

fBodyBodyGyroMag-std(), Std Dev Body Gyroscope Magnitude, Frequency domain

fBodyBodyGyroJerkMag-std(), Std Dev Body Gyroscope Jerk Magnitude, Frequency domain