International Journal of Engineering Technology, Management and Applied Sciences

www.ijetmas.com March 2015, Volume 3 Special Issue, ISSN 2349-4476

DATA MINING CLASSIFICATION APPLIED FOR TYPES OF PYREXIA ANALYSIS USING SPSS

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ABSTRACT

This case study entitled as "TYPES OF PYREXIA" was done by using Statistical Package for the Social Sciences (SPSS). The main objective of this case study is to find out which predict the various classes for the people who were affected by very dangerous pyrexia. In this case study has collected the data from several peoples in Theni district. This case study helps to classify, which category of peoples are affected which type of pyrexia. In this case study had the information about all type of pyrexia like SCARLET, TYPHOID, DENGUE, EBOLA, VIRAL, PNEMONIA, RHEUMATIC, CHIKUNGUNIYA, PARASITIC, MALARIA. This process was done by using the data mining process and graph representation in SPSS.

KEYWORDS: Data mining, Pyrexia, Classification Technique, Graph representation, SPSS

INTRODUCTION

Theni is one of the citiy in Tamilnadu. Many people were alive in that place. Each one has affected by some diseases. Here we have taken Patient ID, Sex, Age, Nausea, vomiting, sore throat, headache, loss of appetite, high pyrexia, diarrhea, chest pain, shortness of breath, muscle aches, cough, pain of joints, disease, for classification. Here we collected the data from individual person about their disease around the Theni district.

In this case study predicted various classes of pyrexia such as SCARLET, TYPHOID, DENGUE, EBOLA, VIRAL, PNEMONIA, RHEUMATIC, CHIKUNGUNIYA, PARASITIC, MALARIA. In our case study is to classify the disease belongs to the people's symptoms. For example, SCARLET pyrexia has the symptoms of Nausea, vomiting, sore throat, headache, loss of appetite. TYPHOID pyrexia has the symptoms of Loss of appetite, headache, high pyrexia and diarrhea. PNEMONIA pyrexia has the symptoms of High pyrexia, shortness of breath, chest pain.

DENGUE pyrexia has the symptoms of High pyrexia, headache, nausea, vomiting, muscle aches. EBOLA pyrexia has the symptoms of High pyrexia, headache, muscle aches, loss of appetite, vomiting, diarrhea, sore throat. VIRAL pyrexia has the symptoms of High pyrexia, muscle aches, sore throat, head ache, cough, and diarrhea. CHIKUNGUNIYA has the symptoms of Head ache, nausea, vomiting, high pyrexia, pain of joints, muscle pain. PARASITIC pyrexia has the symptoms of Diarrhea, loss of appetite, cough, high pyrexia, vomiting. RHEUMATIC pyrexia had the symptoms of High pyrexia, pain of joints, chest

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pain. MALARIA has the symptoms of High pyrexia, headache, nausea, vomiting, cough, muscle pain. In our case study is to classify the disease belongs to the people's symptoms.

METHODOLOGY

In this case study, we have classified the disease according to the people's symptoms using data mining techniques.

We need to use learning algorithms that can produce result in order to rank the testing examples. Algorithm which is used in classification called as graph representation. Graph methods build a collection of rules for use as a predictive model.

Step1

In this first step we created a variable view. Input variables are identified. They are declared as var1 as Patient ID, var2 as Sex, var3 as Age, var4 as Nausea, var5 as vomiting, var6 as sore throat, var7 as headache, var8 as loss of appetite, var9 as high pyrexia, var10 as diarrhea, var11 as chest pain, var12 as shortness of breath, var13 as muscle aches, var14 as cough, var15 as pain of joints, and var16 as disease.

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1	PATIENTID	Restricted ...	3	0		None	None	8	Right	Unknown	Input
2	SEX	String	6	0		None	None	8	Left	Nominal	Input
3	AGE	String	12	0		None	None	8	Left	Nominal	Input
4	NAUSEA	String	8	0		None	None	9	Left	Nominal	Input
5	VOMITING	String	8	0		None	None	8	Left	Nominal	Input
6	SORETHR...	String	8	0		None	None	8	Left	Nominal	Input
7	HEADACHE	String	8	0		None	None	8	Left	Nominal	Input
8	LOSSOFAP...	String	8	0		None	None	8	Left	Nominal	Input
9	HIGHFEVER	String	8	0		None	None	8	Left	Nominal	Input
10	DIARRHEA	String	8	0		None	None	8	Left	Nominal	Input
11	CHESTPAIN	String	8	0		None	None	8	Left	Nominal	Input
12	SHORTNES...	String	8	0		None	None	8	Left	Nominal	Input
13	MUSCLEA...	String	8	0		None	None	8	Left	Nominal	Input
14	COUGH	String	8	0		None	None	8	Left	Nominal	Input
15	PAINOFJOI...	String	8	0		None	None	8	Left	Nominal	Input
16	DISEASE	String	20	0		None	None	14	Left	Nominal	Input
17	VAR00001	String	15	0		None	None	15	Left	Nominal	Input

Step2

In this second step, we want to fill our collected data in data view.

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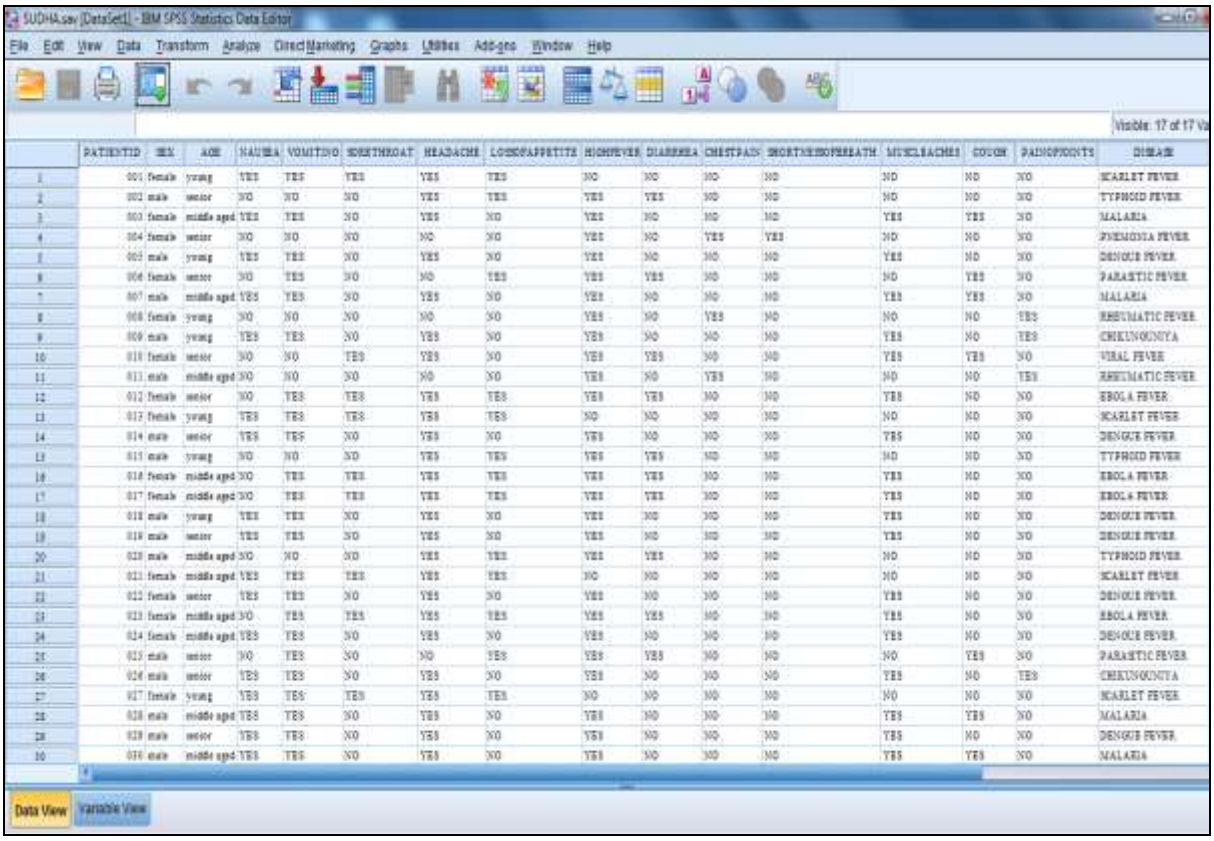

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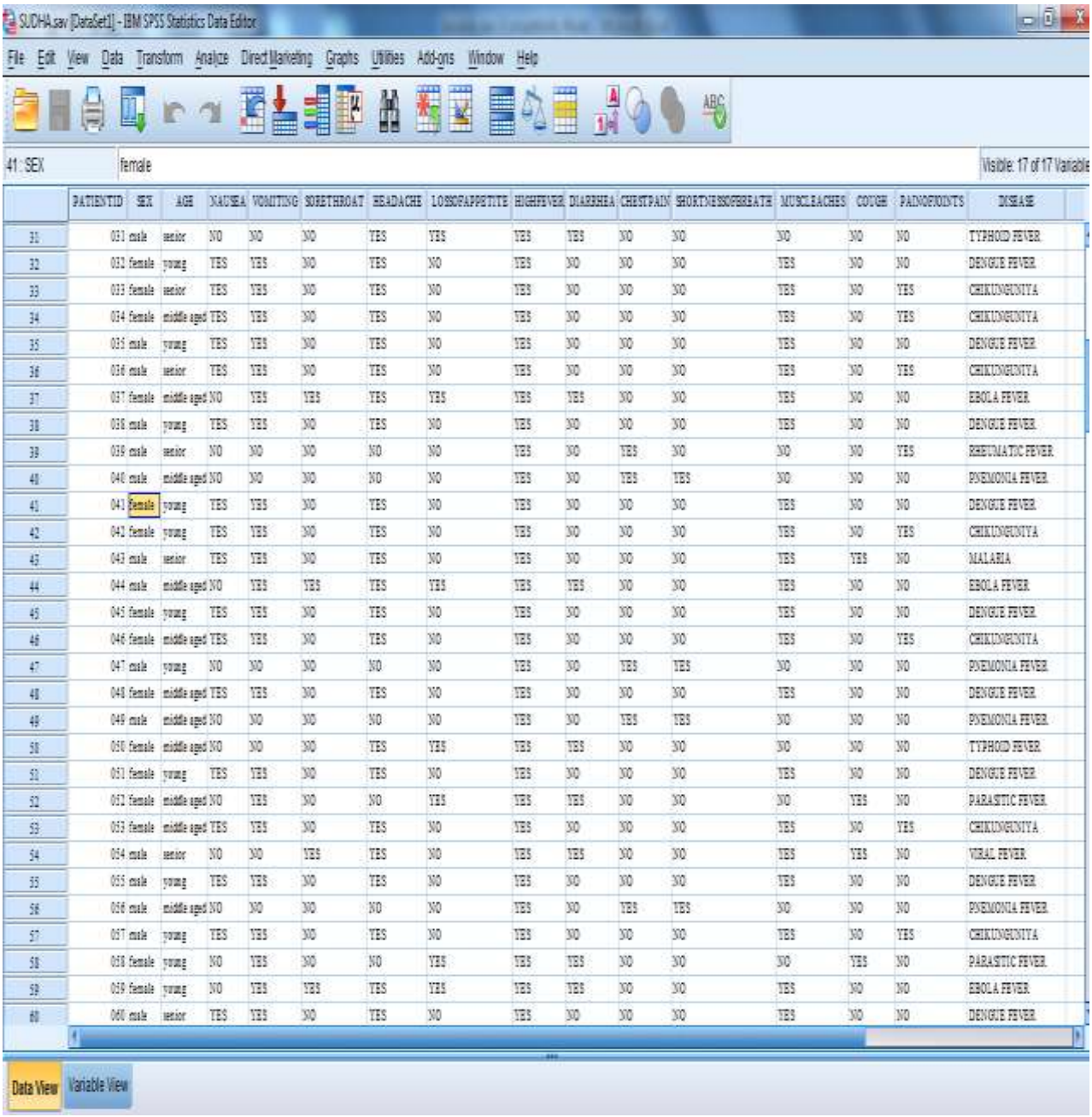

	PATIENTID	SEX	AGE	NAUSEA	VOMITING	SORETHROAT	HEADACHE	LOSSOFAPPETITE	HIGHFEVER	DIARRHEA	CHESTPAIN	SHORTNESSOFBREATH	MUSCLEACHES	COUGH	PAINPOINTS	DISEASE
31	031	male	senior	NO	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	TYPHOID FEVER.
32	032	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
33	033	female	senior	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNIYA
34	034	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNIYA
35	035	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
36	036	male	senior	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNIYA
37	037	female	middle aged	NO	YES	YES	YES	YES	YES	YES	NO	NO	YES	NO	NO	EBOLA FEVER.
38	038	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
39	039	male	senior	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	YES	RHEUMATIC FEVER.
40	040	male	middle aged	NO	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	PNEMONIA FEVER.
41	041	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
42	042	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNIYA
43	043	male	senior	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	MALARIA
44	044	male	middle aged	NO	YES	YES	YES	YES	YES	YES	NO	NO	YES	NO	NO	EBOLA FEVER.
45	045	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
46	046	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNIYA
47	047	male	young	NO	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	PNEMONIA FEVER.
48	048	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
49	049	male	middle aged	NO	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	PNEMONIA FEVER.
50	050	female	middle aged	NO	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	TYPHOID FEVER.
51	051	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
52	052	female	middle aged	NO	YES	NO	NO	YES	YES	YES	NO	NO	NO	YES	NO	PARASITIC FEVER.
53	053	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNIYA
54	054	male	senior	NO	NO	YES	YES	NO	YES	YES	NO	NO	YES	YES	NO	VIRAL FEVER.
55	055	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
56	056	male	middle aged	NO	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	PNEMONIA FEVER.
57	057	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNIYA
58	058	female	young	NO	YES	NO	NO	YES	YES	YES	NO	NO	NO	YES	NO	PARASITIC FEVER.
59	059	female	young	NO	YES	YES	YES	YES	YES	YES	NO	NO	YES	NO	NO	EBOLA FEVER.
60	060	male	senior	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.

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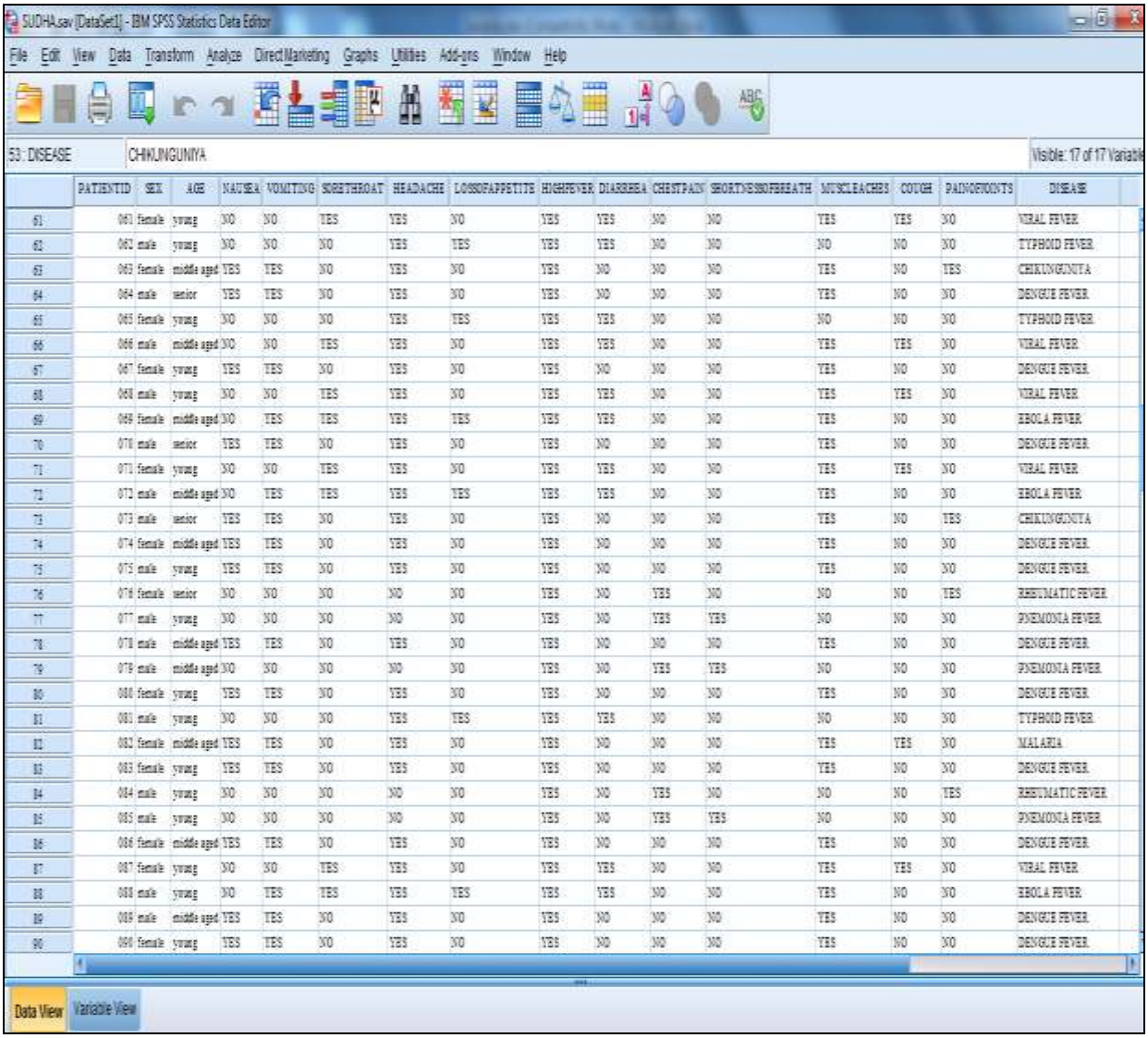

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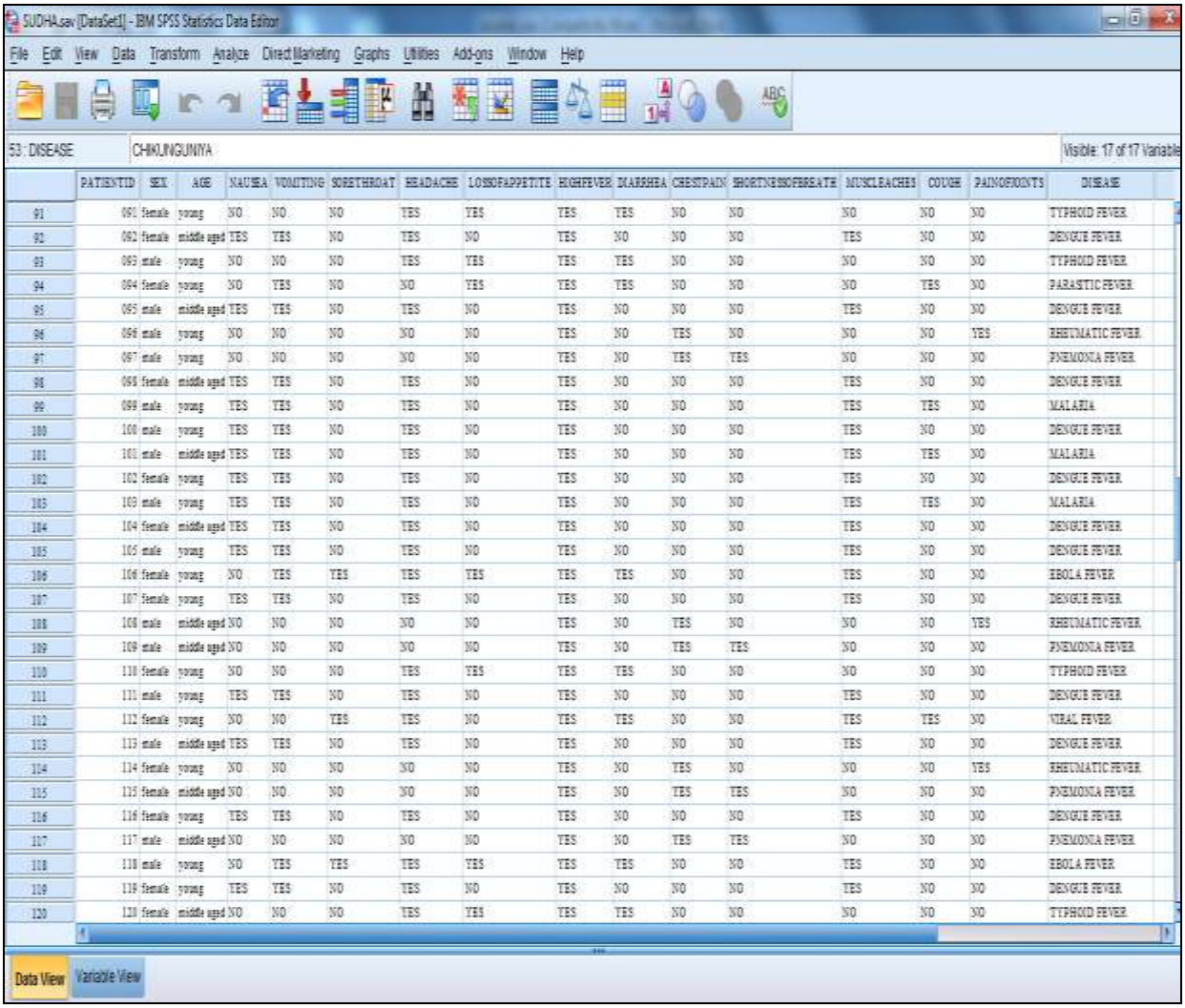

SUDHA.sav [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

53 : DISEASE | CHIKUNGUNIYA | Visible: 17 of 17 Variable

	PATIENTID	SEX	AGE	NAUSEA	VOMITING	SORETHROAT	HEADACHE	LOSSOFAPPETITE	HIGHFEVER	DIARRHEA	CHESTPAIN	SHORTNESSOFBREATH	MUSCLEACHES	COUGH	PAINOFJOINTS	DISEASE
91	091	female	young	NO	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	TYPHOID FEVER.
92	092	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
93	093	male	young	NO	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	TYPHOID FEVER.
94	094	female	young	NO	YES	NO	NO	YES	YES	YES	NO	NO	NO	YES	NO	PARASITIC FEVER.
95	095	male	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
96	096	male	young	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	YES	RHEUMATIC FEVER.
97	097	male	young	NO	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	PNEMONIA FEVER.
98	098	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
99	099	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	MALARIA
100	100	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
101	101	male	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	MALARIA
102	102	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
103	103	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	MALARIA
104	104	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
105	105	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
106	106	female	young	NO	YES	YES	YES	YES	YES	YES	NO	NO	YES	NO	NO	EBOLA FEVER.
107	107	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
108	108	male	middle aged	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	YES	RHEUMATIC FEVER.
109	109	male	middle aged	NO	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	PNEMONIA FEVER.
110	110	female	young	NO	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	TYPHOID FEVER.
111	111	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
112	112	female	young	NO	NO	YES	YES	NO	YES	YES	NO	NO	YES	YES	NO	VIRAL FEVER.
113	113	male	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
114	114	female	young	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	YES	RHEUMATIC FEVER.
115	115	female	middle aged	NO	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	PNEMONIA FEVER.
116	116	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
117	117	male	middle aged	NO	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	PNEMONIA FEVER.
118	118	male	young	NO	YES	YES	YES	YES	YES	YES	NO	NO	YES	NO	NO	EBOLA FEVER.
119	119	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER.
120	120	female	middle aged	NO	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	TYPHOID FEVER.

Data View | Variable View

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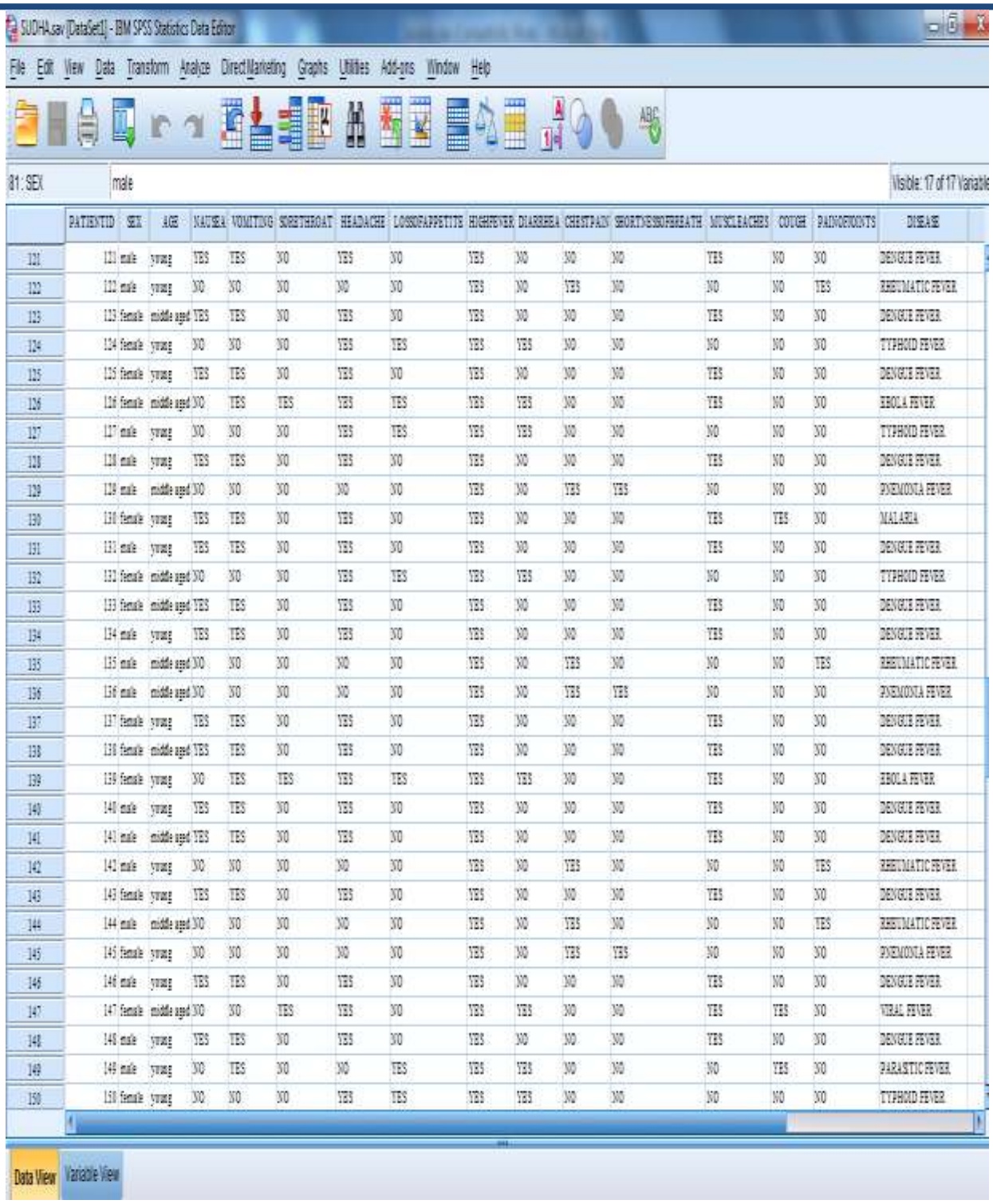

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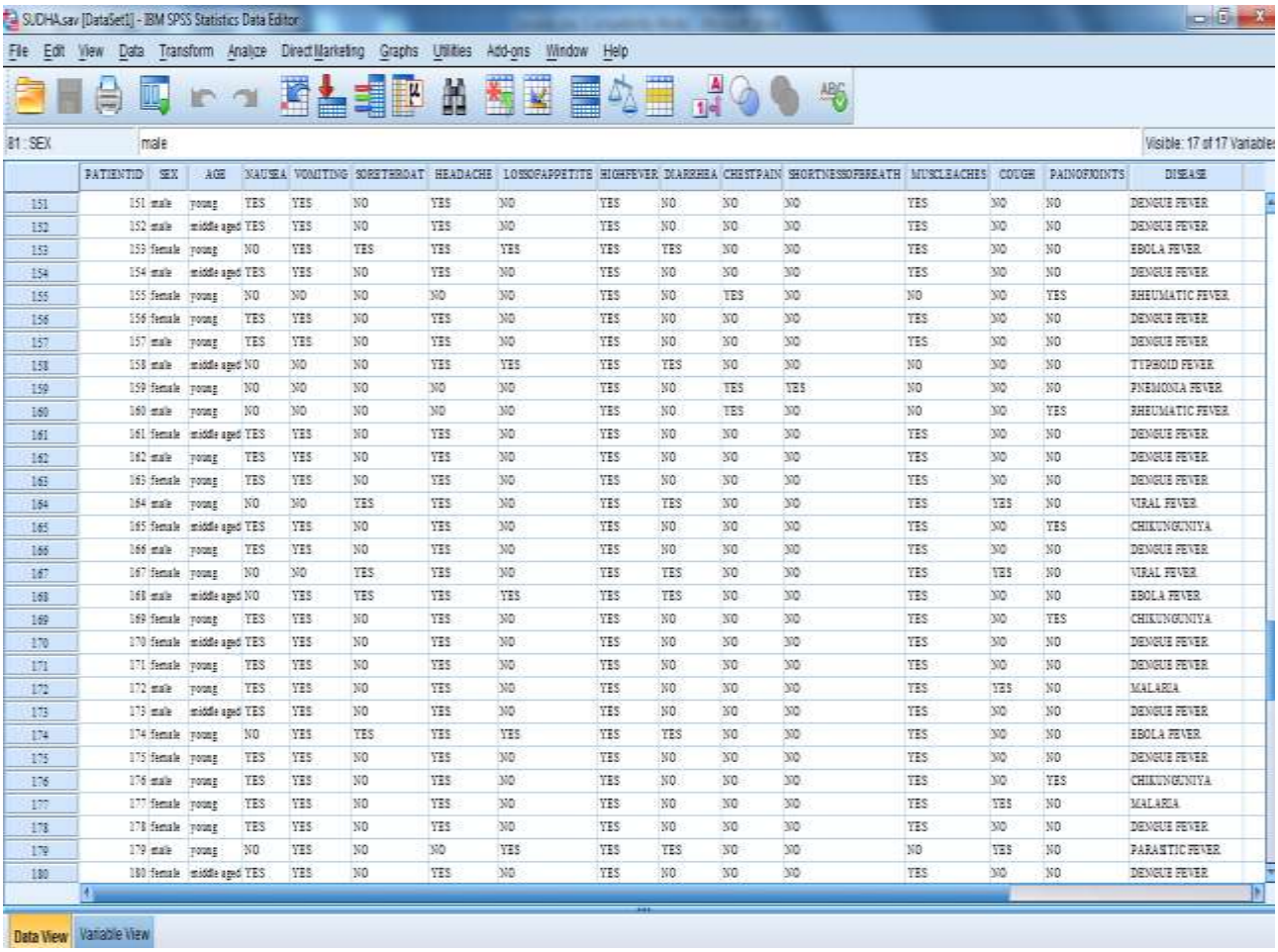

	PATIENTID	SEX	AGE	NAUSEA	VOMITING	SORSTHROAT	HEADACHE	LOSSOFAPPETITE	HIGHFEVER	DIARRHEA	CHESTPAIN	SHORTNESSOFBREATH	MUSCLEACHES	COUGH	PAINOFJOINTS	DISEASE
151	151	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
152	152	male	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
153	153	female	young	NO	YES	YES	YES	YES	YES	YES	NO	NO	YES	NO	NO	EBOLA FEVER
154	154	male	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
155	155	female	young	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	YES	RHEUMATIC FEVER
156	156	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
157	157	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
158	158	male	middle aged	NO	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	TYPHOID FEVER
159	159	female	young	NO	NO	NO	NO	NO	YES	NO	YES	YES	NO	NO	NO	PNEMONIA FEVER
160	160	male	young	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	YES	RHEUMATIC FEVER
161	161	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
162	162	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
163	163	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
164	164	male	young	NO	NO	YES	YES	NO	YES	YES	NO	NO	YES	YES	NO	VIRAL FEVER
165	165	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNIYA
166	166	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
167	167	female	young	NO	NO	YES	YES	NO	YES	YES	NO	NO	YES	YES	NO	VIRAL FEVER
168	168	male	middle aged	NO	YES	YES	YES	YES	YES	YES	NO	NO	YES	NO	NO	EBOLA FEVER
169	169	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNIYA
170	170	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
171	171	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
172	172	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	MALARIA
173	173	male	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
174	174	female	young	NO	YES	YES	YES	YES	YES	YES	NO	NO	YES	NO	NO	EBOLA FEVER
175	175	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
176	176	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNIYA
177	177	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	MALARIA
178	178	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
179	179	male	young	NO	YES	NO	NO	YES	YES	YES	NO	NO	NO	YES	NO	PARASTIC FEVER
180	180	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER

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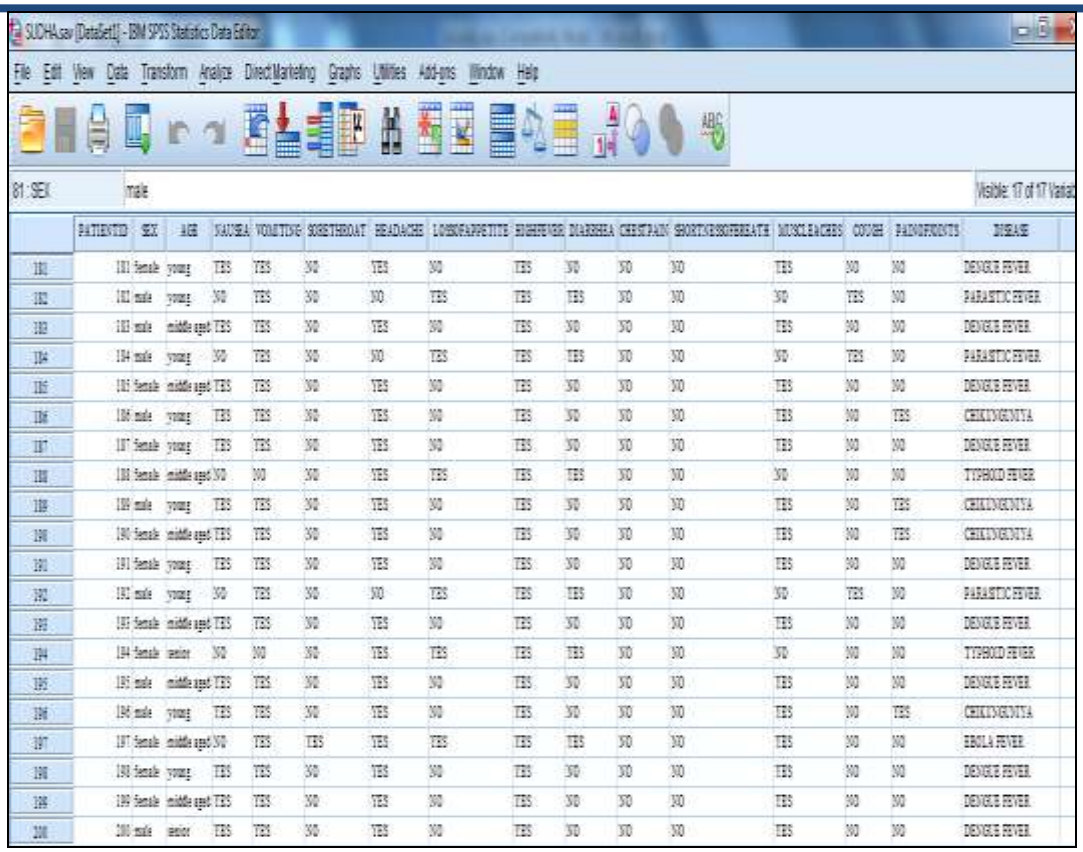

	PATIENTID	SEX	AGE	NAUSEA	VOMITING	SORETHROAT	HEADACHE	LOSSOFAPPETITE	HIGHFEVER	DIARRHEA	CHESTPAIN	SHORTNESSOFBREATH	MUSCLEACHES	COUGH	PAINOFPOINTS	DISEASE
101	101	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
102	102	male	young	NO	YES	NO	NO	YES	YES	YES	NO	NO	NO	YES	NO	PARASTIC FEVER
103	103	male	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
104	104	male	young	NO	YES	NO	NO	YES	YES	YES	NO	NO	NO	YES	NO	PARASTIC FEVER
105	105	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
106	106	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNYA
107	107	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
108	108	female	middle aged	NO	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	TYPHOID FEVER
109	109	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNYA
110	110	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNYA
111	111	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
112	112	male	young	NO	YES	NO	NO	YES	YES	YES	NO	NO	NO	YES	NO	PARASTIC FEVER
113	113	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
114	114	female	senior	NO	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	TYPHOID FEVER
115	115	male	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
116	116	male	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	CHIKUNGUNYA
117	117	female	middle aged	NO	YES	YES	YES	YES	YES	YES	NO	NO	YES	NO	NO	EBOLA FEVER
118	118	female	young	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
119	119	female	middle aged	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER
120	120	male	senior	YES	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	DENGUE FEVER

Step3

Training log is used to find out the miss classify of the given class

Frequencies

```
[DataSet1] D:\New Folder (5)\SUDHA.sav
```

Statistics

Indicator of each last matching case as Primary

N	Valid	200
	Missing	0

Indicator of each last matching case as Primary

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Duplicate Case	150	75.0	75.0	75.0
	Primary Case	50	25.0	25.0	100.0
	Total	200	100.0	100.0	

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EXECUTE.
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Step4

In this step, Training log is used to find out the miss classify of the each and every tuple.

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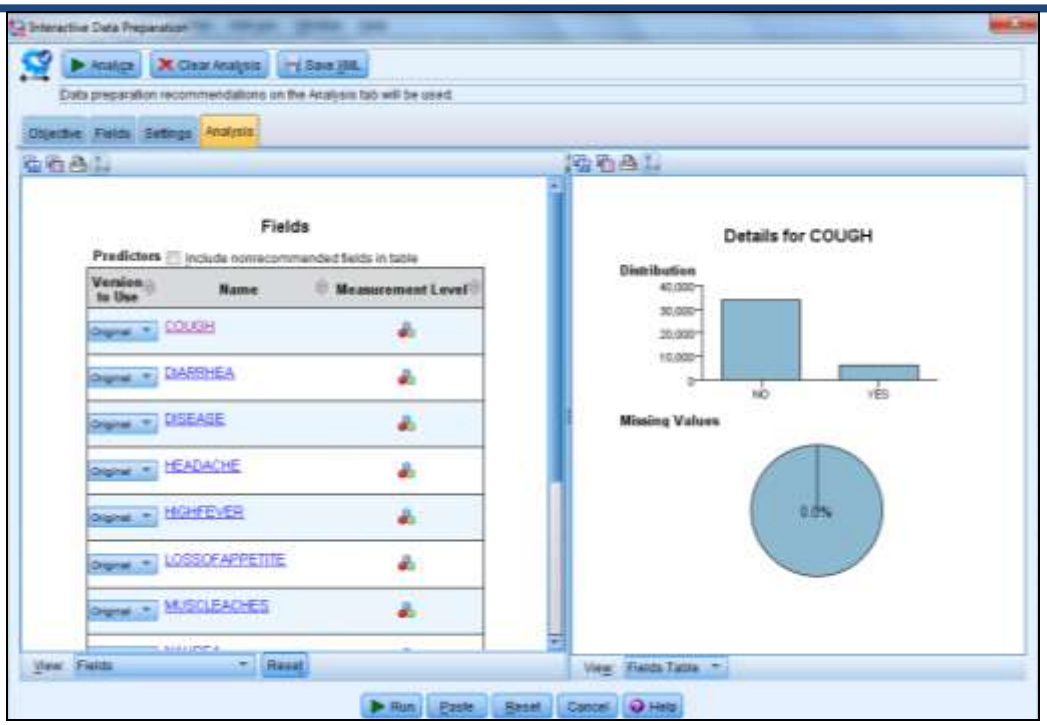

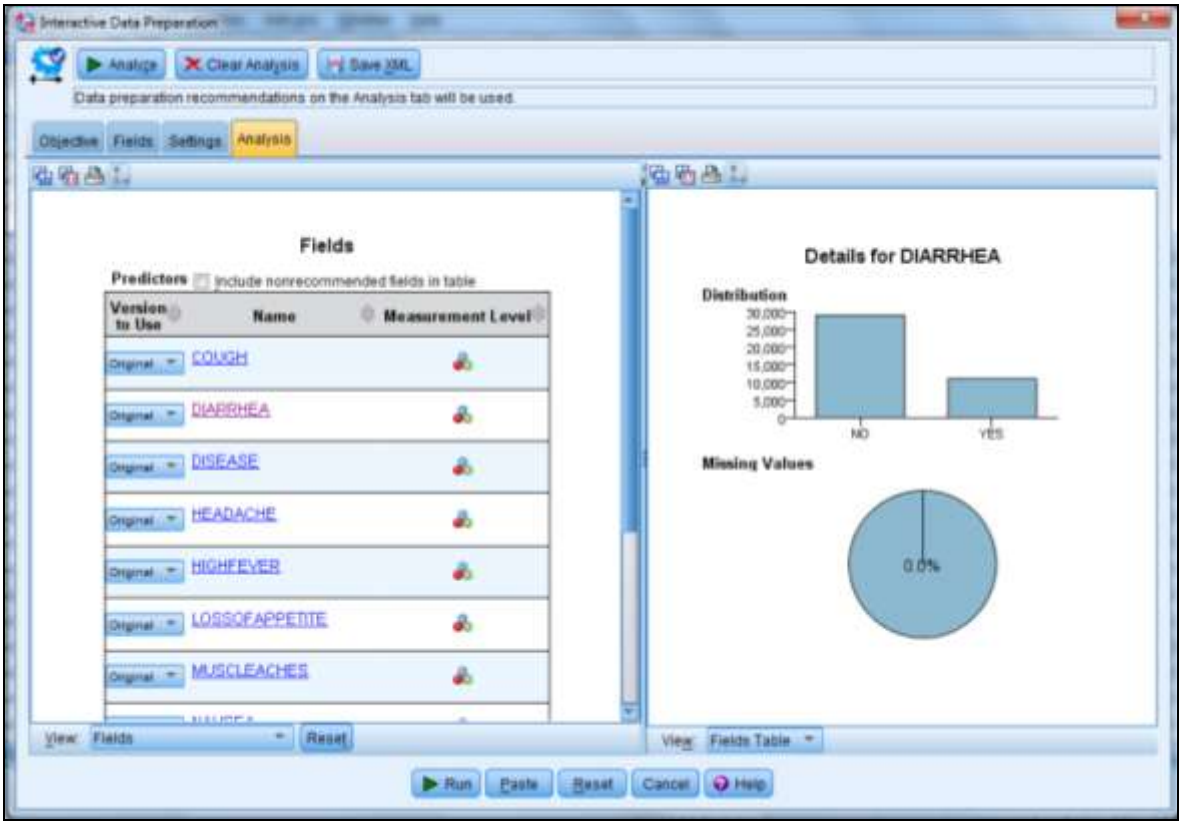

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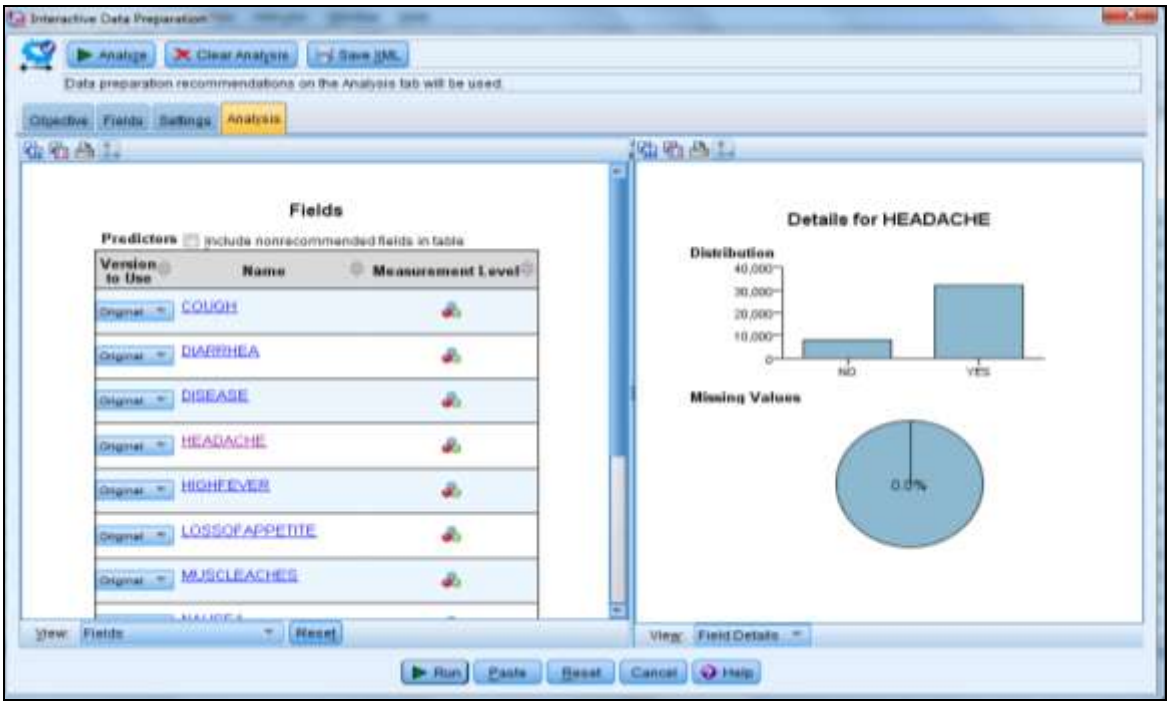

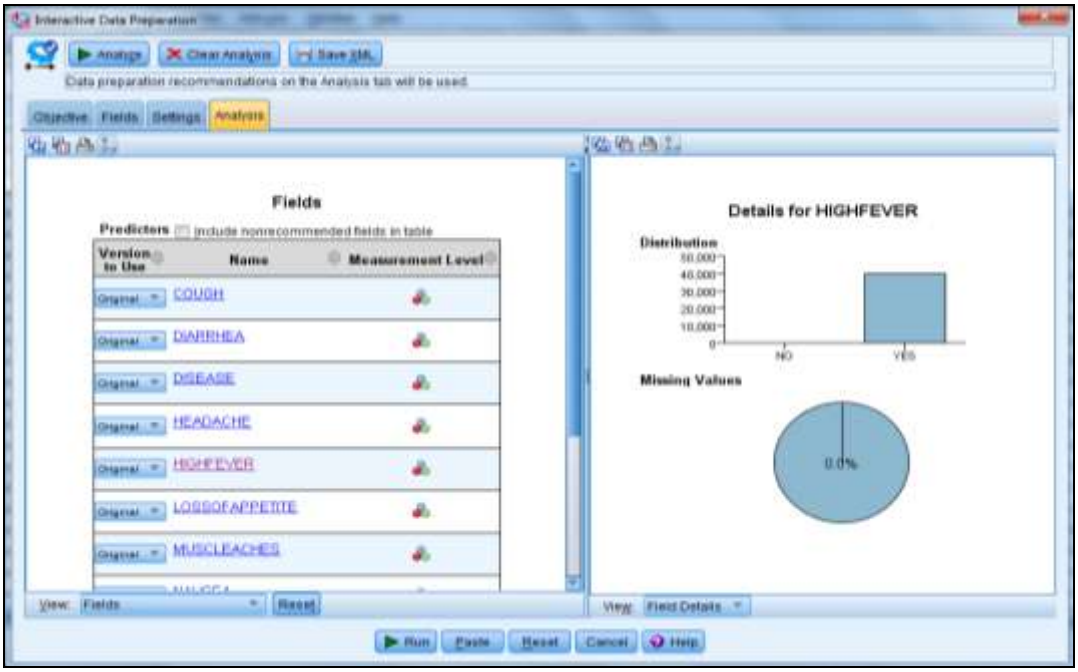

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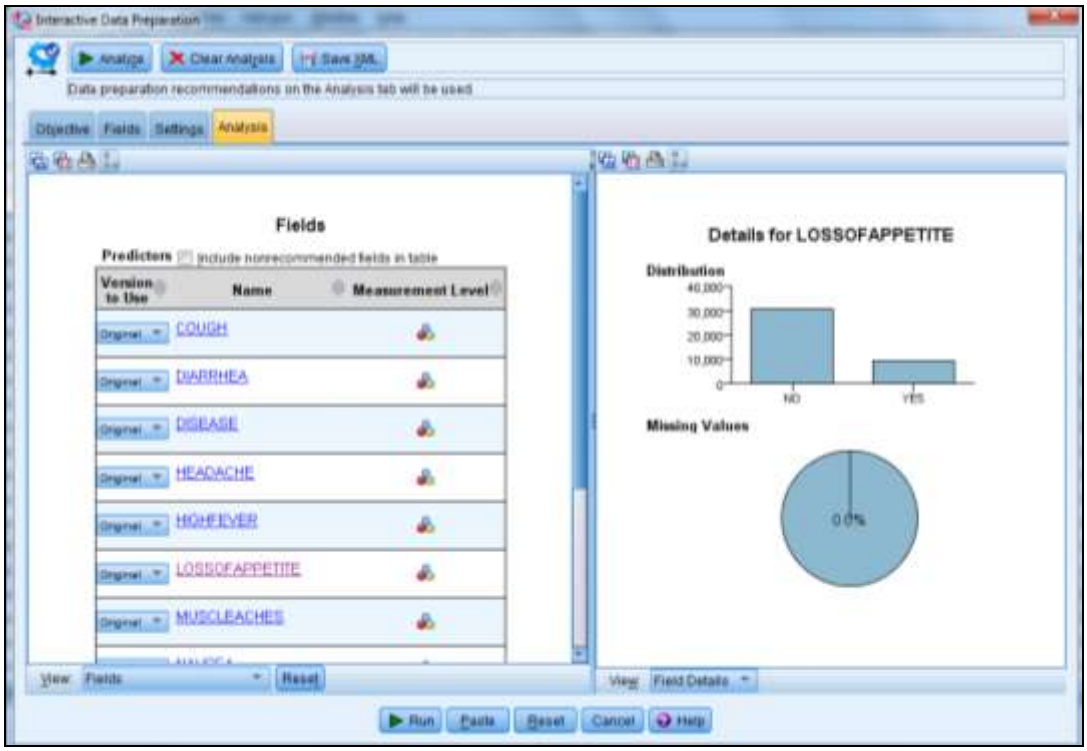

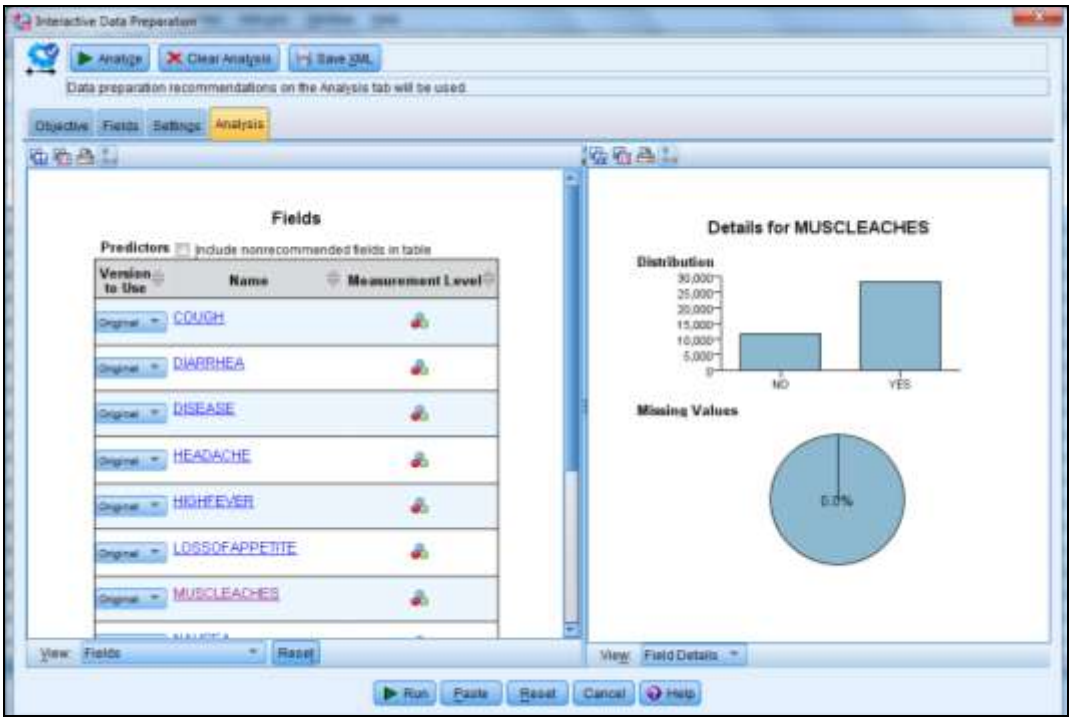

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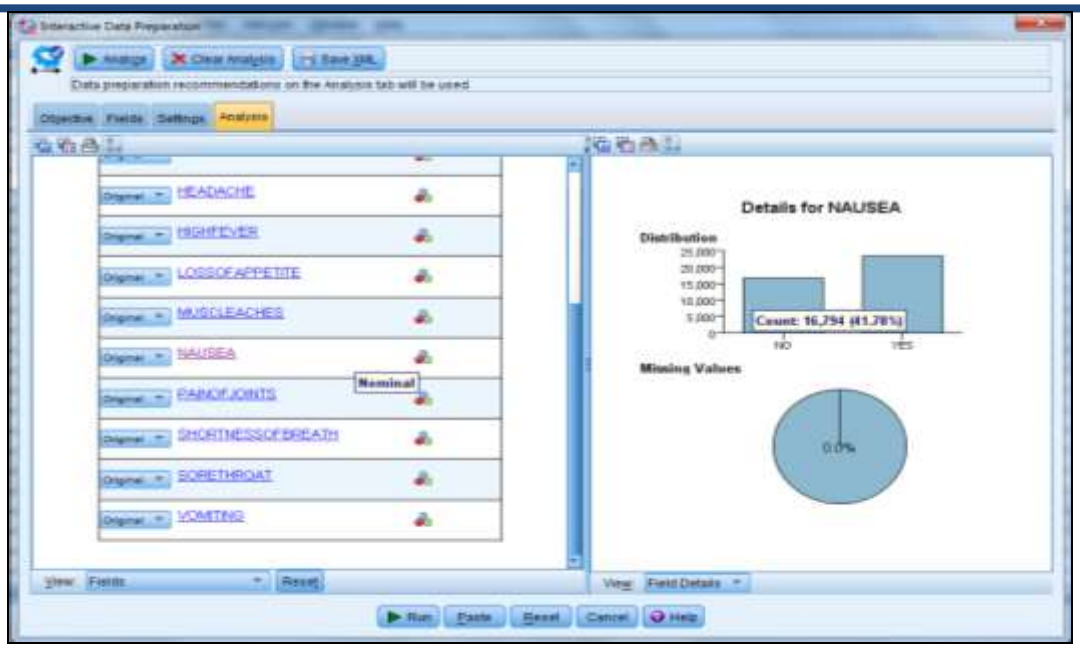

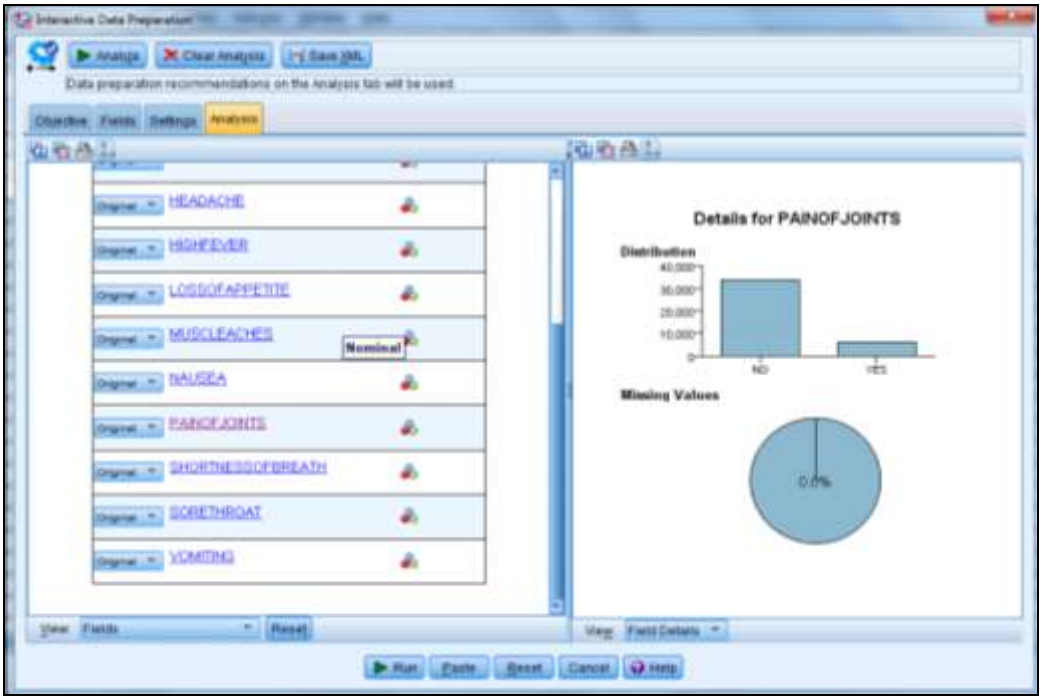

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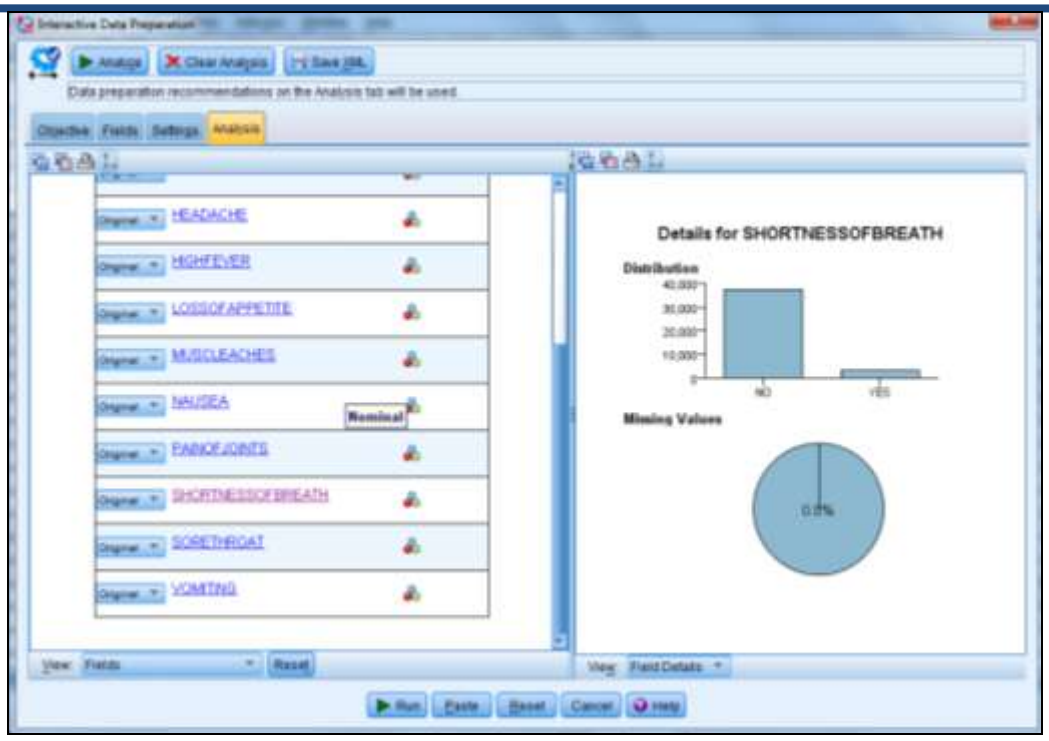

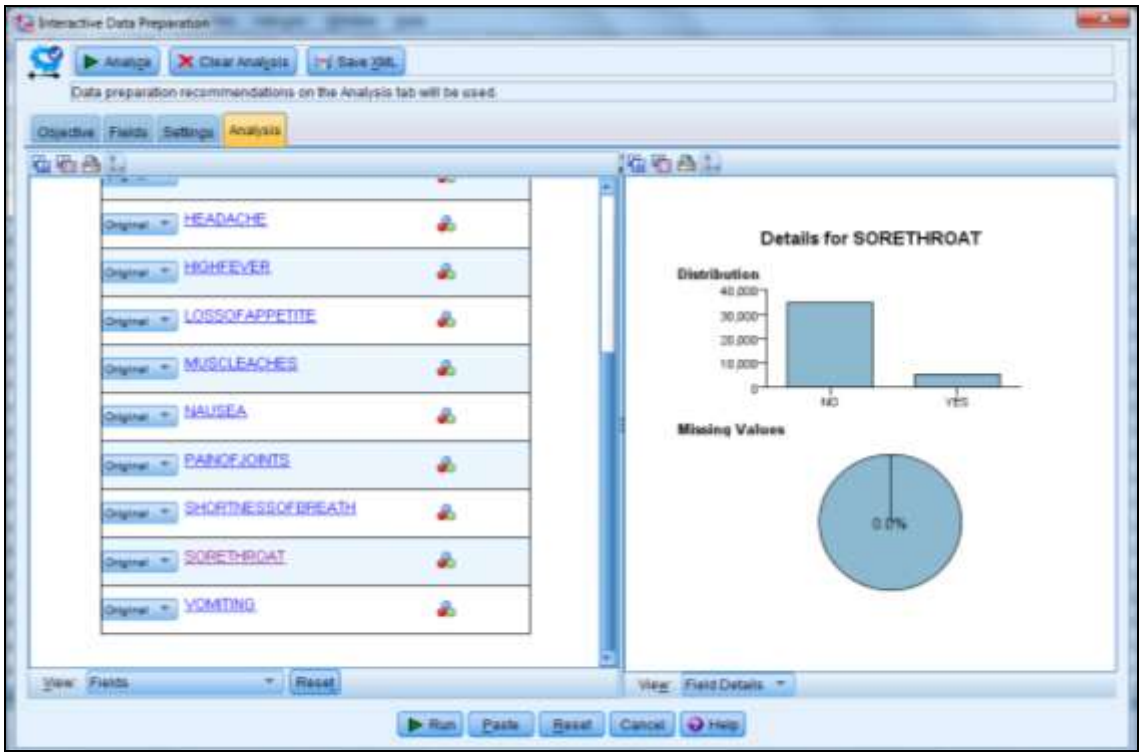

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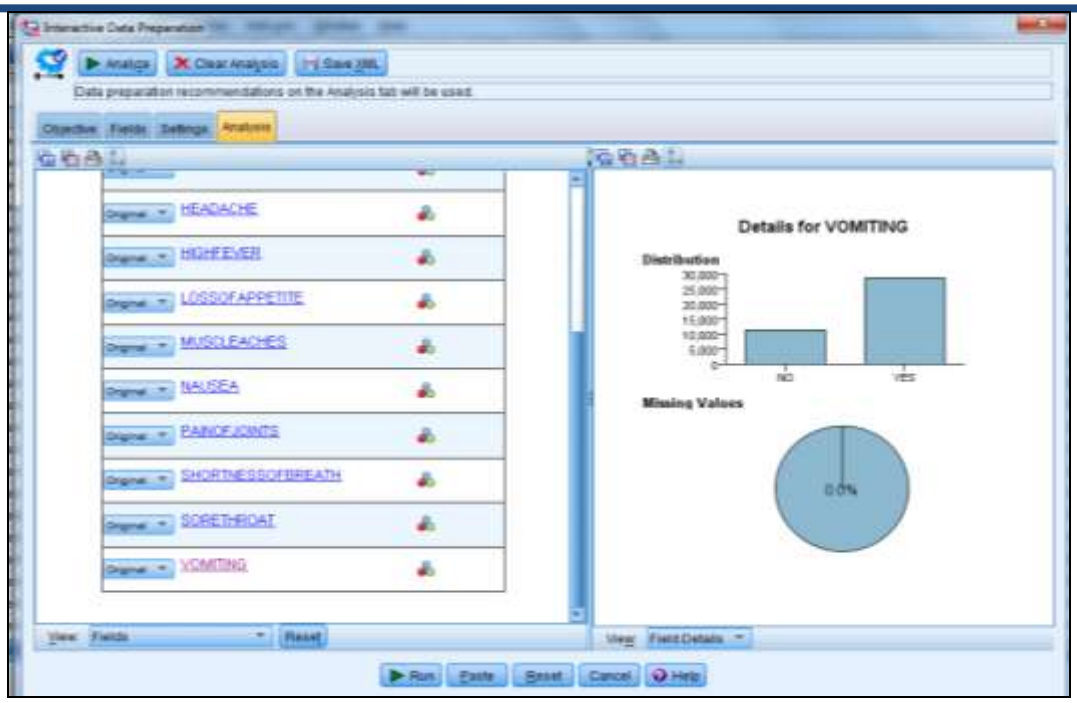
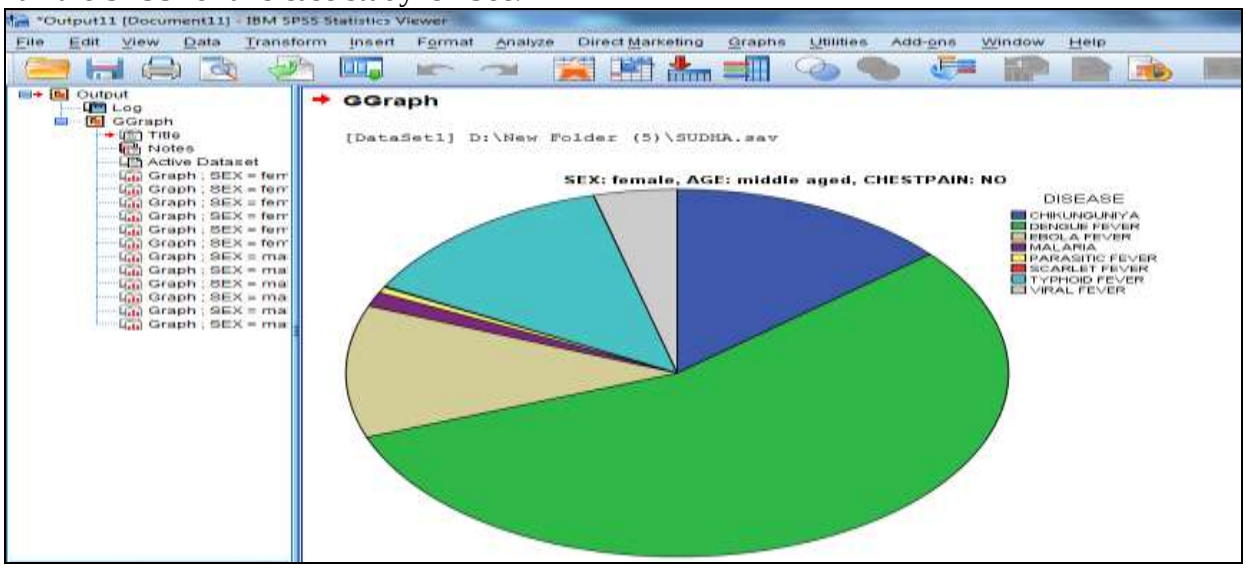


Step5

In this step, the graph was constructed with the corresponding attribute such as disease. The graph is selected by that high probability value. Finally, in this step to classify the actual class to predicted classes in given data such as SCARLET PYREXIA, TYPHOID PYREXIA, DENGUE PYREXIA, EBOLA PYREXIA, VIRAL PYREXIA, PNEMONIA PYREXIA, RHEUMATIC PYREXIA CHIKUNGUNIYA, PARASITIC pyrexia, MALARIA will be get from this step. The overall elapse time to run the SPSS for this case study is 1Sec.



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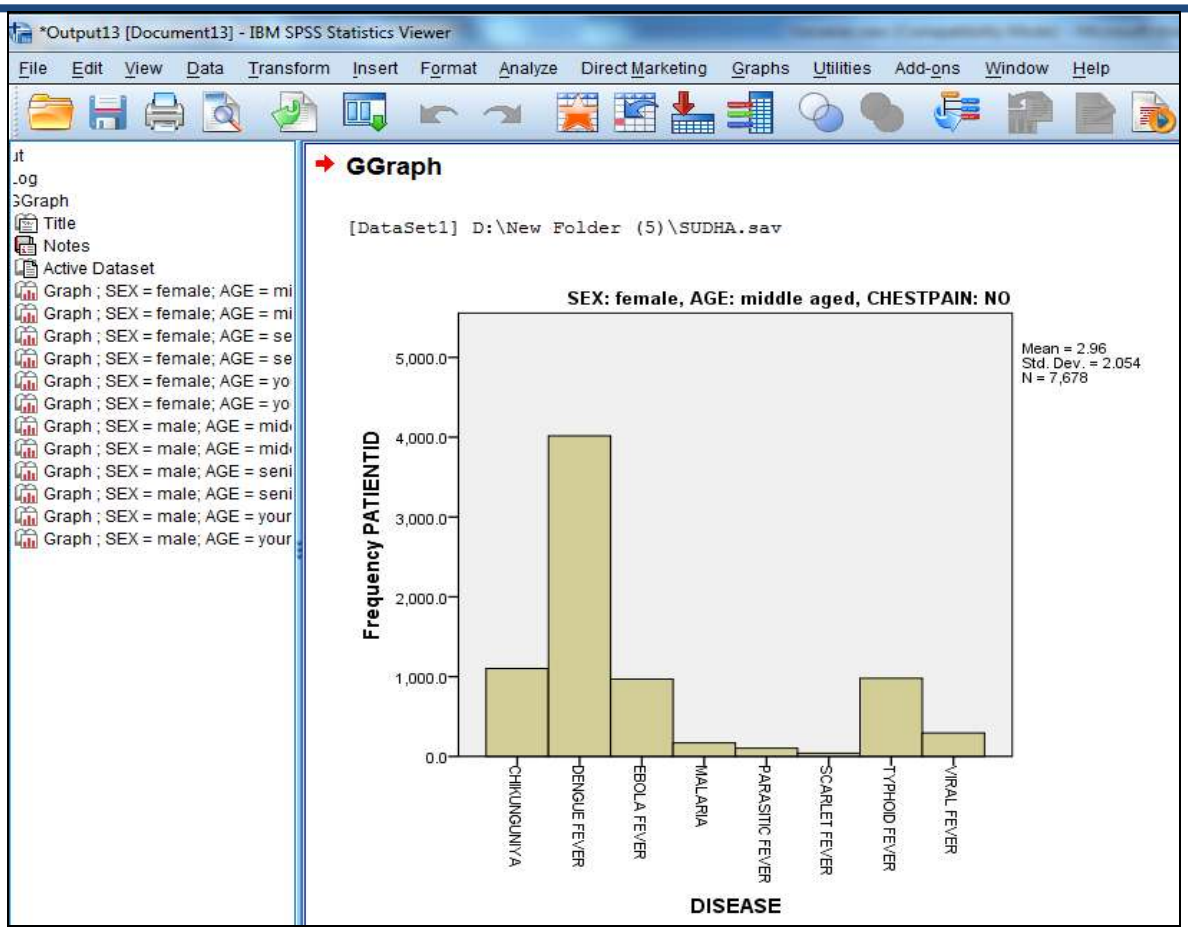

DATA MINING FINDINGS

The initial studies unveiled a number of relationships between variables as well as threshold values that justify further analysis. The several values of several attributes are useful predictors of retention and/or attrition. These explanations increase our confidence that the values of these attributes will continue to be predictors in the future.

We have to classify how many persons are affected by SCARLET, TYPHOID, DENGUE, EBOLA, VIRAL, PNEMONIA, RHEUMATIC, CHIKUNGUNIYA, PARASITIC, and MALARIA by using SPSS.

CONCLUSION

The goal of classification was to build a set of models that can correctly predict the class of the different objects. The input to this method is set of objects (i.e., training data), the classes which these objects belongs to (i.e., dependent variables), and a set variables describing different characteristics of the objects (i.e., independent variables). Once such a predictive model is built, it can be used to predict the class of the objects for which class information is not known a priori.

Hereby, we collected all the data about which type of pyrexia were affected the people according to their symptoms. In before, the case study was done difficult to classify the pyrexia

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disease according to their symptoms. After completed this case study, was useful for classify the diseases in easier way.

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