DPM: Disease Pattern Miner(http://diseasepatterns.com/)

Acceptable data format

id	date	item
ID_1	01/01/1920	dermatitis eczema
ID_10	01/01/1925	psoriasis
ID_2	01/01/1920	osteoarthritis excl spine
ID_3	01/01/1921	asthma
ID_4	16/11/1921	cerebral palsy
ID_5	01/01/1922	glaucoma
ID_6	21/07/1922	hypertension
ID_7	07/07/1923	asthma
ID_8	02/01/1924	asthma
ID_9	01/01/1925	learning disability

 # sample 1

id	date	item
100	01/01/1920	event1
101	02/01/1920	event2
102	03/01/1920	event3
103	04/01/1920	event4
104	05/01/1920	event5
105	06/01/1920	event6
106	07/01/1920	event2
107	08/01/1920	event3
108	09/01/1920	event4
109	10/01/1920	event5

#sample 2

Apriori

Sample data available in the documentation tab

3 columns

1. Id
2. date
3. item

Column names case sensitive
Maintain same names for your data

DPM: Disease Pattern Miner(http://diseasepatterns.com/)

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DPM Home Analysis Documentation Feedback

Apriori

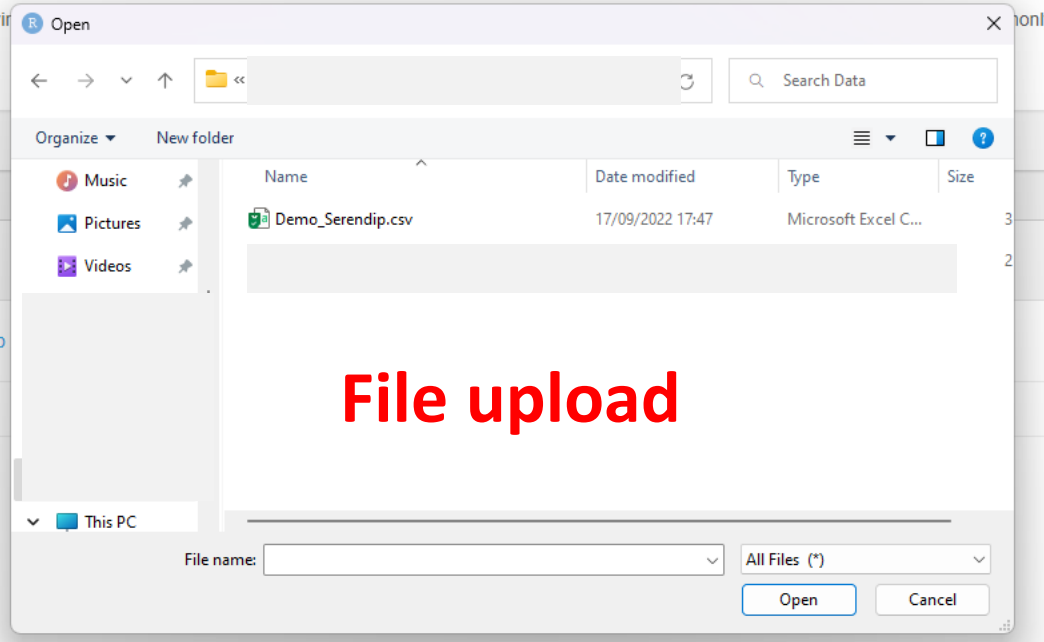
First algorithm that was proposed for frequent itemset mining. One of the most important strategies for identifyir ...only appear together.
It is known as market basket analysis.

Example data set available in the documentation section

please uplod your file

Browse... No file selected

Default support threshold = 0.001, confidence = 0.001.Please use local copy of DPM for customization: Github



File upload

Battery status: 96% available (plugg

Apriori

First algorithm that was proposed for frequent itemset mining. One of the most important strategies for identifying associations between items is market basket analysis. It operates by searching the data for groups of entries that commonly appear together.
It is known as market basket analysis.

Example data set available in the documentation section

please uplod your file

Browse... Demo_Serendip.csv

Upload complete

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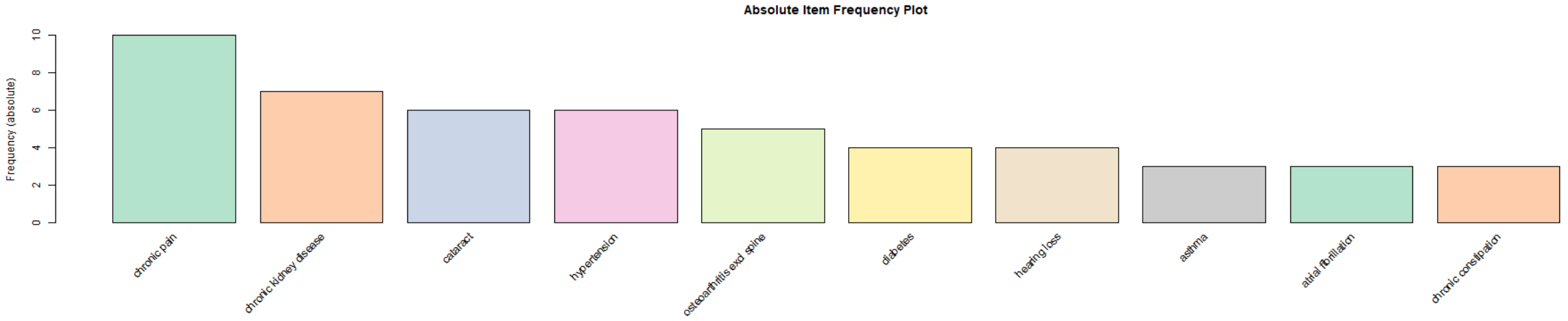
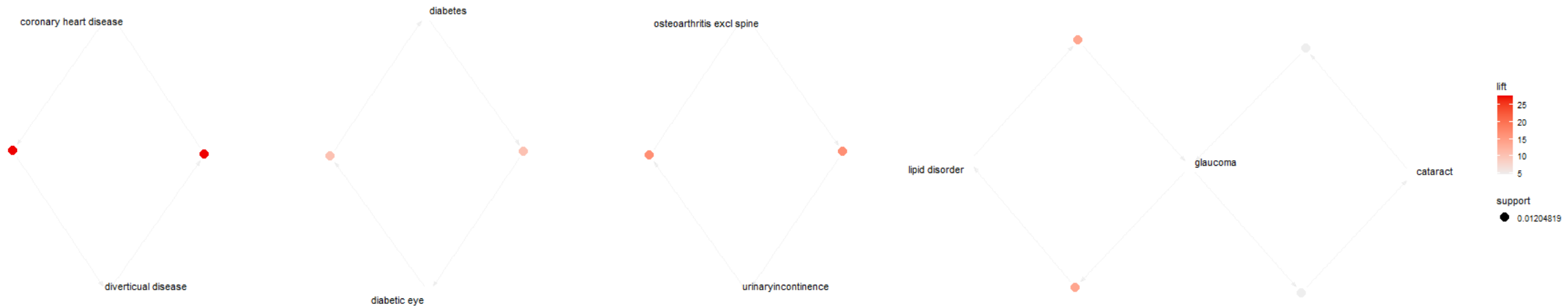
Download mined patterns

View & download results





Result

	lhs	rhs	support	confidence	coverage	lift	count
	All	All	All	All	All	All	All
1	{coronary heart disease}	{diverticual disease}	0.0120481927710843	1	0.0120481927710843	27.6666666666667	1
2	{diverticual disease}	{coronary heart disease}	0.0120481927710843	0.333333333333333	0.036144578313253	27.6666666666667	1
3	{urinaryincontinence}	{osteoarthritis excl spine}	0.0120481927710843	1	0.0120481927710843	16.6	1
4	{osteoarthritis excl spine}	{urinaryincontinence}	0.0120481927710843	0.2	0.0602409638554217	16.6	1
5	{lipid disorder}	{glaucoma}	0.0120481927710843	0.5	0.0240963855421687	13.8333333333333	1
6	{glaucoma}	{lipid disorder}	0.0120481927710843	0.333333333333333	0.036144578313253	13.8333333333333	1
7	{diabetic eye}	{diabetes}	0.0120481927710843	0.5	0.0240963855421687	10.375	1
8	{diabetes}	{diabetic eye}	0.0120481927710843	0.25	0.0481927710843374	10.375	1
9	{glaucoma}	{cataract}	0.0120481927710843	0.333333333333333	0.036144578313253	4.61111111111111	1
10	{cataract}	{glaucoma}	0.0120481927710843	0.166666666666667	0.072289156626506	4.61111111111111	1

Show desk

cSpade

Sample data available in the documentation tab

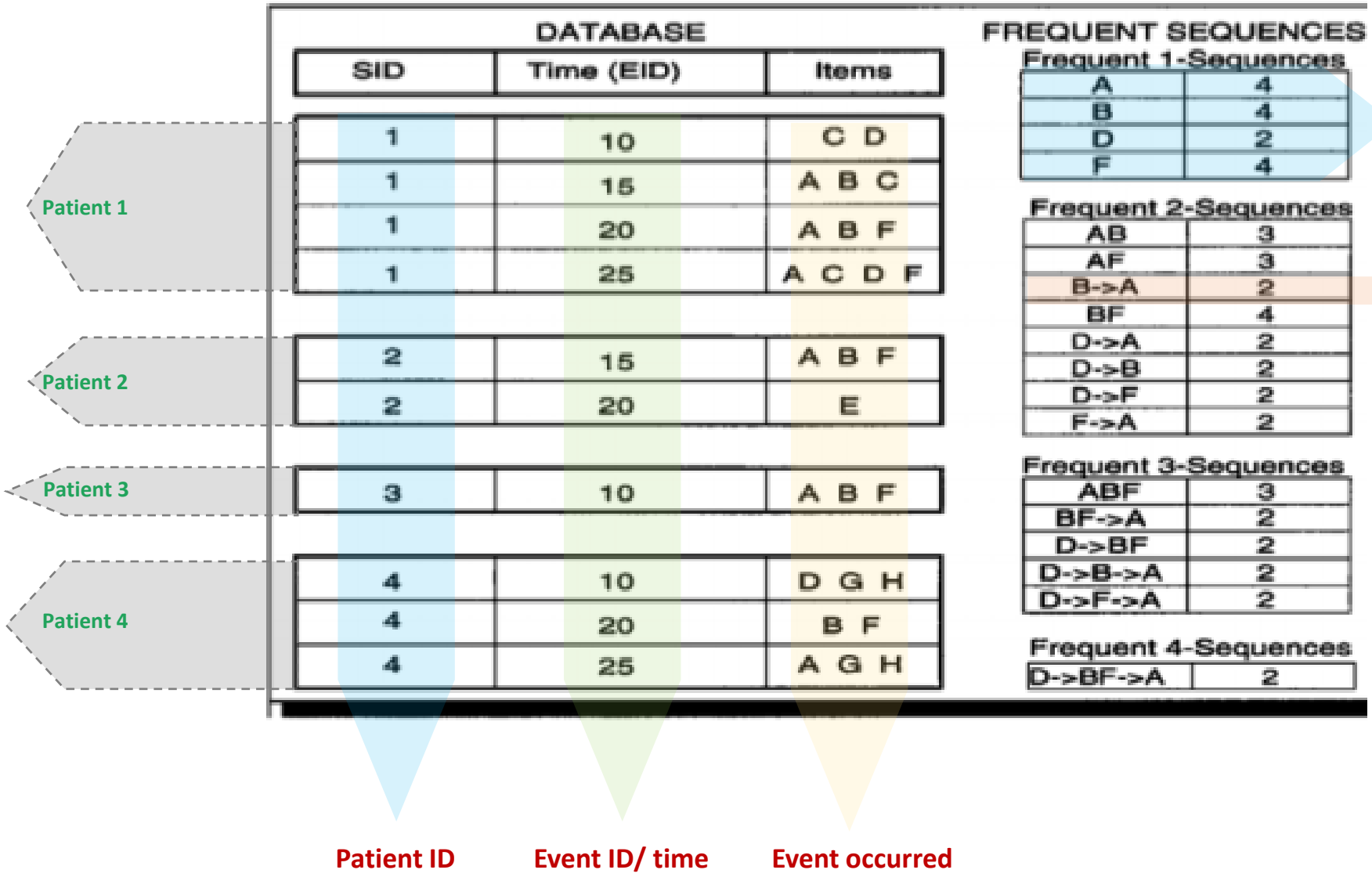
3 columns

1. Id
2. date
3. item

Column names case sensitive
Maintain same names for your data

1. **Upload your data to convert to transaction format**
2. **Download the transaction format**
3. **Upload the transaction data**

Sequential pattern mining

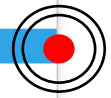


DPM: Disease Pattern Miner(http://diseasepatterns.com/)

DPM – Disease pattern miner

DPM Home Analysis Documentation Feedback

Apriori
Spade
Serendip



SPADE

This algorithm takes time factor into consideration for pattern mining. **It is known as sequential pattern mining**

Example data set available in the documentation section

Step 1: Data preparation

upload the file

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Default support threshold = 0.001, confidence = 0.001.Please use local copy of DPM for customization: Github

Phase: 1

Step 2: Mine patterns

DPM Home Analysis Documentation Feedback

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This algorithm takes time factor into consideration for pattern mining. **It is known as sequential pattern minin**

Example data set available in the documentation section

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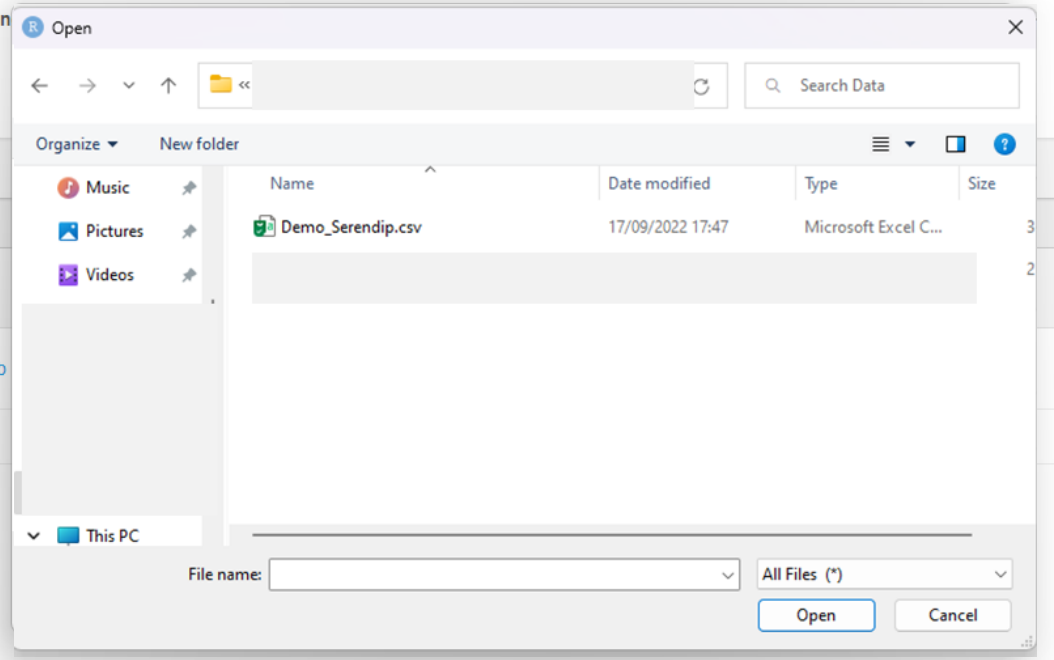


Phase: 1

Step 2: Mine patterns

DPM Home Analysis Documentation Feedback

SPADE

This algorithm takes time factor into consideration for pattern mining. **It is known as sequential pattern mining**

Example data set available in the documentation section

Step 1: Data preparation

upload the file

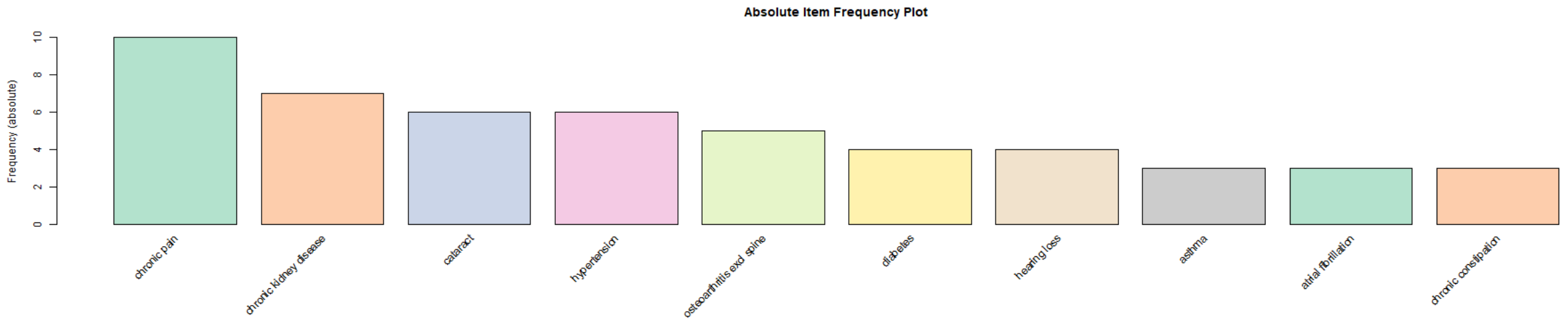
Browse... Demo_Serendip.csv

Upload complete

Default support threshold = 0.001, confidence = 0.001.Please use local copy of DPM for customization: Github

Download prepared data

Download prepared data for phase 2



Step 2: Mine patterns

Step 2: Mine patterns

Phase: 2

Upload prepared file from step 1

Browse... No file selected

Step 2: Mine patterns

Upload prepared file from step 1

Browse... Spade_prepared_data.txt

Upload complete

Phase: 2

Result

	rule	support	confidence	lift
	All	All	All	All
3	<{glaucoma}> => <{urinaryincontinence,osteoarthritis excl spine}>	0.1	1	10
4	<{glaucoma},{chronic pain}> => <{urinaryincontinence,osteoarthritis excl spine}>	0.1	1	10
5	<{glaucoma},{cataract}> => <{urinaryincontinence,osteoarthritis excl spine}>	0.1	1	10
6	<{chronic pain},{cataract}> => <{urinaryincontinence,osteoarthritis excl spine}>	0.1	0.5	5
7	<{glaucoma},{chronic pain},{cataract}> => <{urinaryincontinence,osteoarthritis excl spine}>	0.1	1	10
12	<{psoriasis}> => <{urinary incontinence}>	0.1	0.5	5
13	<{renalstones}> => <{urinary incontinence}>	0.1	1	10
14	<{psoriasis},{renalstones}> => <{urinary incontinence}>	0.1	1	10
15	<{hypertension},{renalstones}> => <{urinary incontinence}>	0.1	1	10
16	<{renalstones},{hearing loss}> => <{urinary incontinence}>	0.1	1	10

Showing 1 to 10 of 11,982 entries

Previous 1 2 3 4 5 … 1,199

Show deskt

SERENDIP

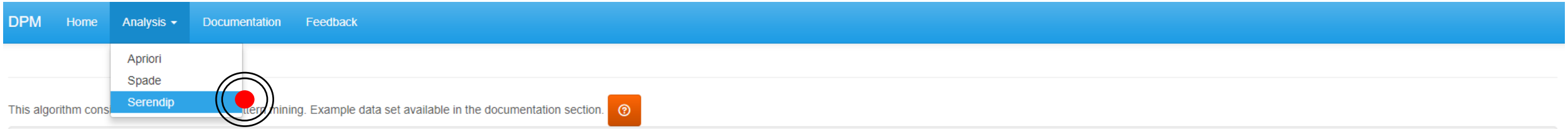
Sample data available in the documentation tab

3 columns

1. Id
2. date
3. item

Column names case sensitive
Maintain same names for your data

DPM: Disease Pattern Miner(http://diseasepatterns.com/)



Choose the file

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Results

DPM Home Analysis Documentation Feedback

SERENDIP

This algorithm considers order of event for pattern mining. Example data set available in the documentation section

Choose the file

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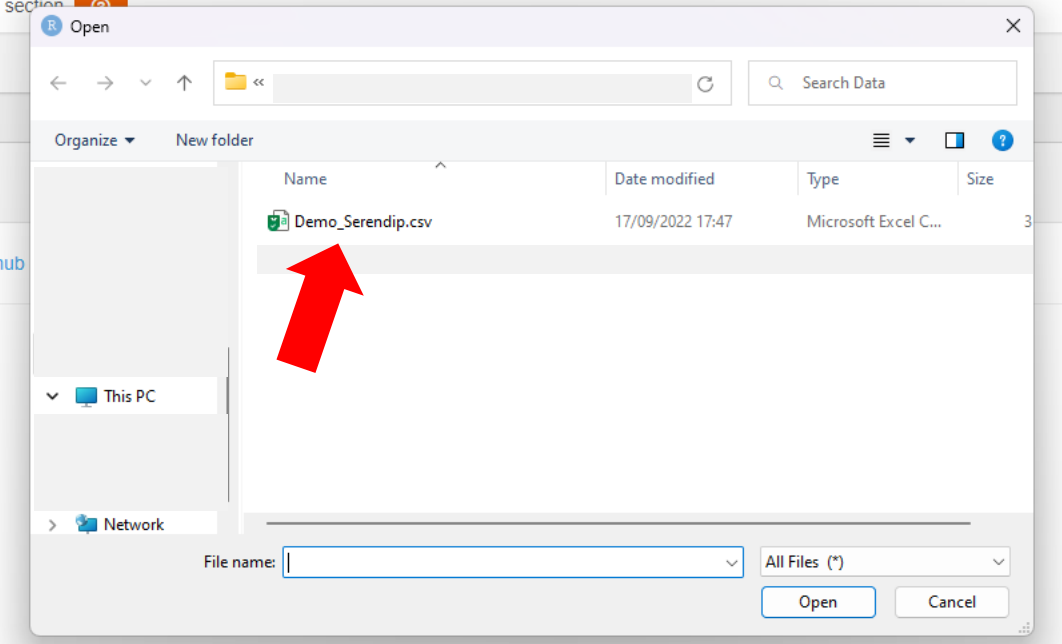

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Results

Browse... Demo_Serendip.csv

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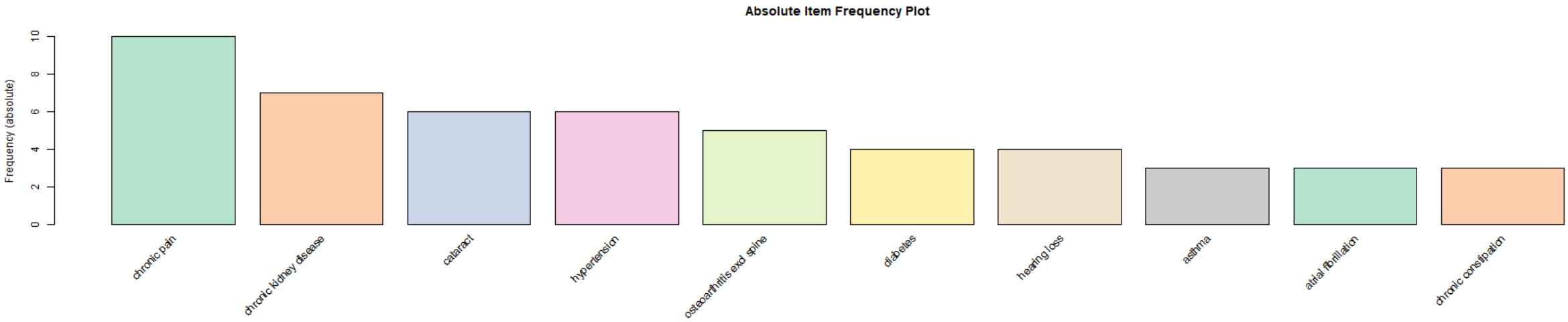

Download

Download mined patterns

View & download results

Results

Patterns

	Rule	Count	Support	Confidence	Lift	Patterns_of
	All	All	All	All	All	All
1	**asthma=>allergic and chronicrhinitis**	1	0.1000	0.3333	3.3333	Two
2	**asthma=>gastritis and duodenitis**	1	0.1000	0.3333	3.3333	Two