

M.Asjaun

1103210181

Terdapat 3 Data pada Orange ini yaitu

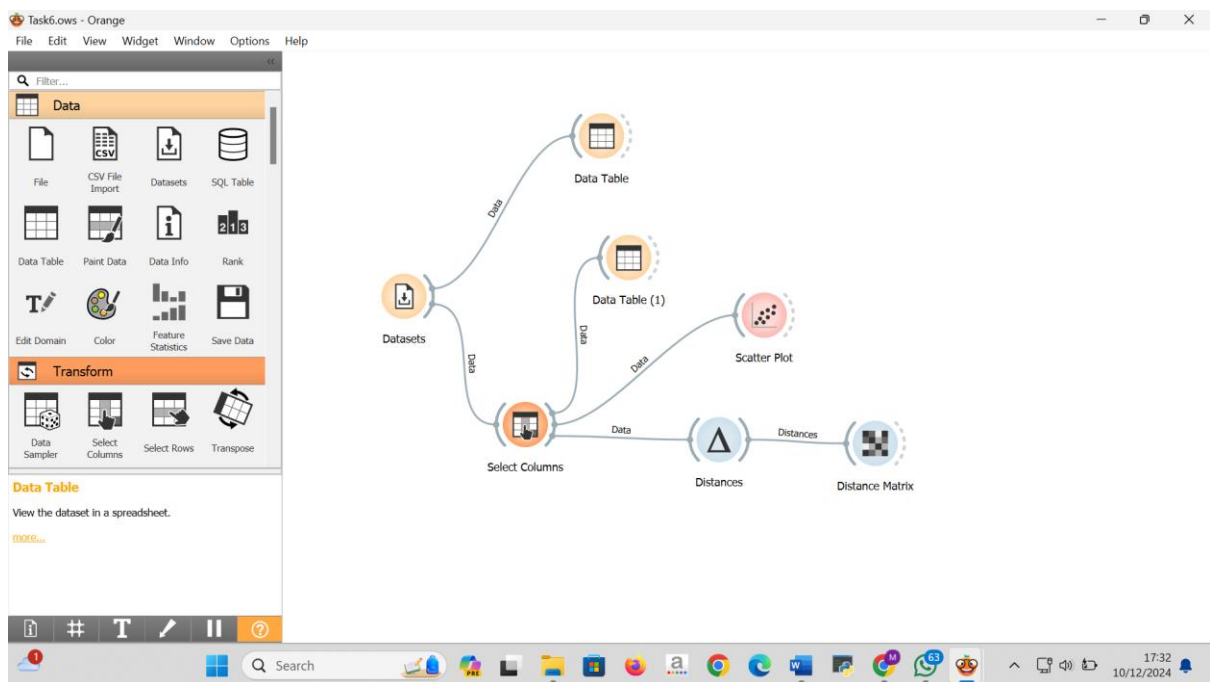
Euclidean Clustering using ODM

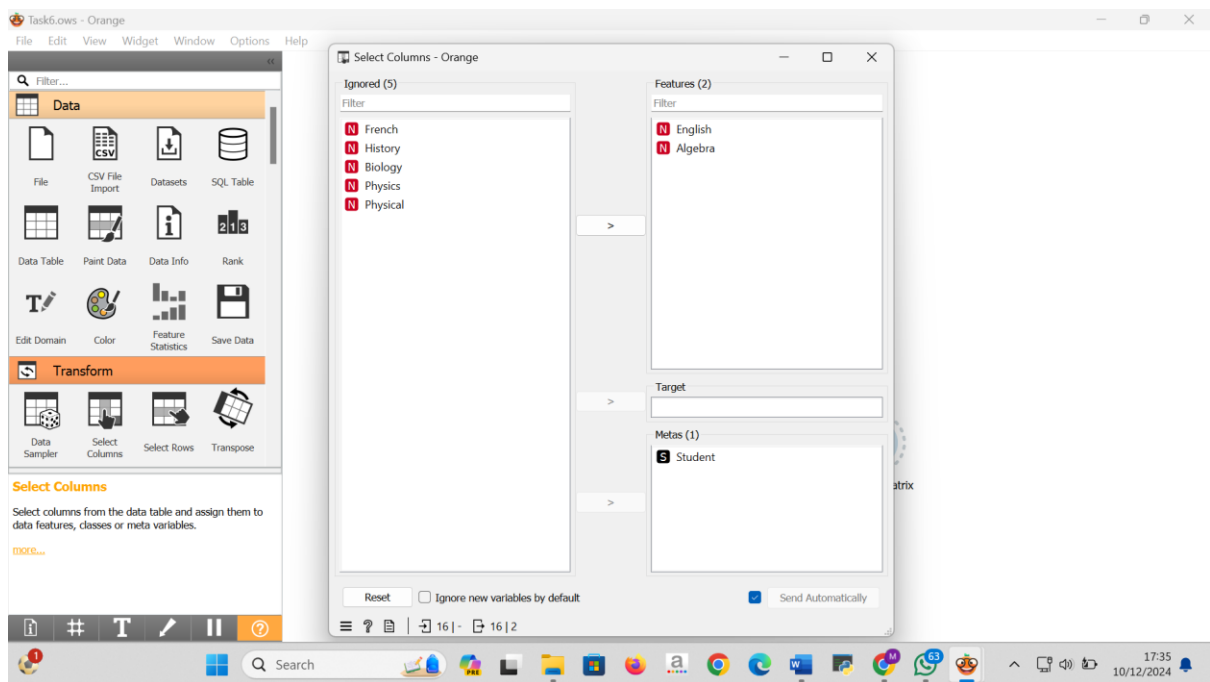
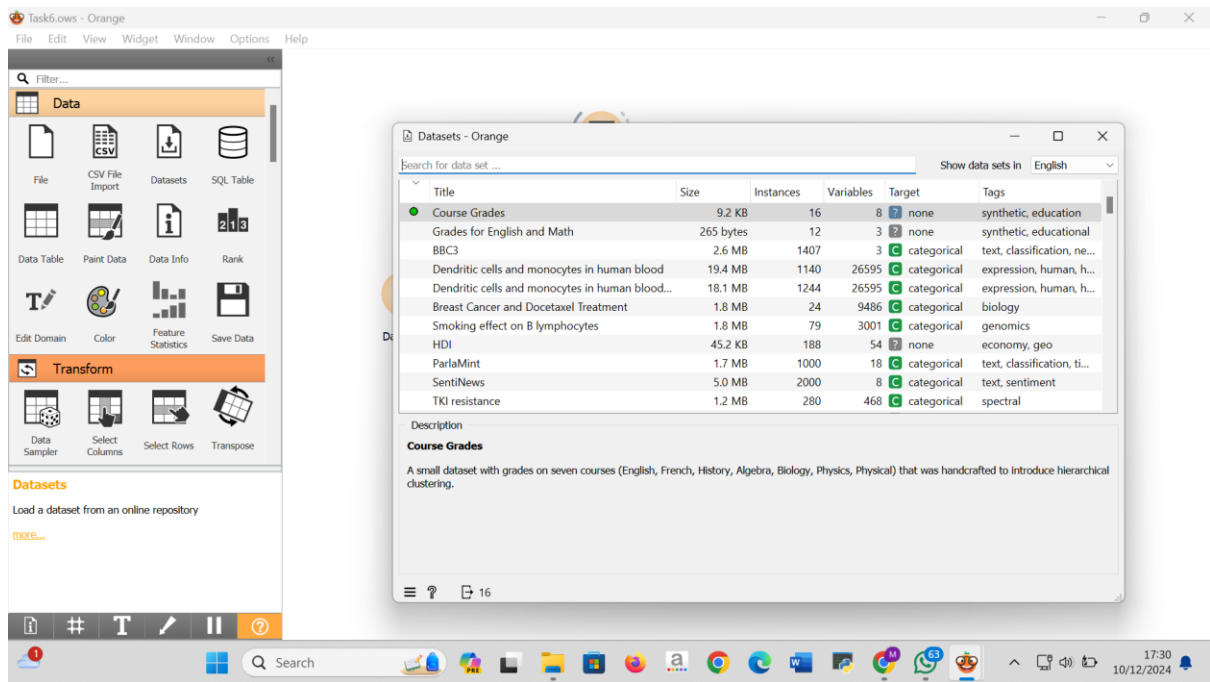
Hierarchical Clustering using ODM

K-Means Clustering using ODM

Semua metode ini menggunakan teknik Optimal Decision Making (ODM) untuk meningkatkan hasil clustering dengan membuat keputusan yang lebih terinformasi mengenai pemisahan atau pembentukan cluster.

Euclidean Clustering Using ODM





Task6.ows - Orange

File Edit View Widget Window Options Help

Filter...

Data

Info

16 instances (no missing data)
7 features
No target variable.
1 meta attribute

Variables

☒ Show variable labels (if present)
☐ Visualize numeric values
☒ Color by instance classes

Selection

☒ Select full rows

Transform

Data Table

View the dataset in a spreadsheet.

more...

Restore Original Order

☒ Send Automatically

	Student	English	French	History	Algebra	Biology	Physics	Physical
1	Ana	22	30	32	21	37	46	99
2	Bill	91	95	65	89	39	11	29
3	Cynthia	51	89	21	100	70	100	27
4	Demi	9	15	18	61	100	90	8
5	Eve	93	99	39	12	47	17	63
6	Fred	49	17	17	92	70	98	73
7	George	91	99	97	49	96	81	69
8	Henry	12	30	32	34	12	33	96
9	Ian	91	80	20	82	93	87	22
10	Jena	39	18	19	99	97	77	23
11	Katherine	20	50	10	71	99	78	12
12	Lea	90	100	45	45	20	15	100
13	Maya	100	98	97	32	72	22	37
14	Nash	14	4	15	61	42	51	39
15	Olga	9	22	8	100	11	92	29
16	Phill	85	90	100	45	38	92	21

16 | 16

17:32
10/12/2024

Task6.ows - Orange

File Edit View Widget Window Options Help

Filter...

Data

Info

16 instances (no missing data)
2 features
No target variable.
1 meta attribute

Variables

☒ Show variable labels (if present)
☐ Visualize numeric values
☒ Color by instance classes

Selection

☒ Select full rows

Transform

Data Table

View the dataset in a spreadsheet.

more...

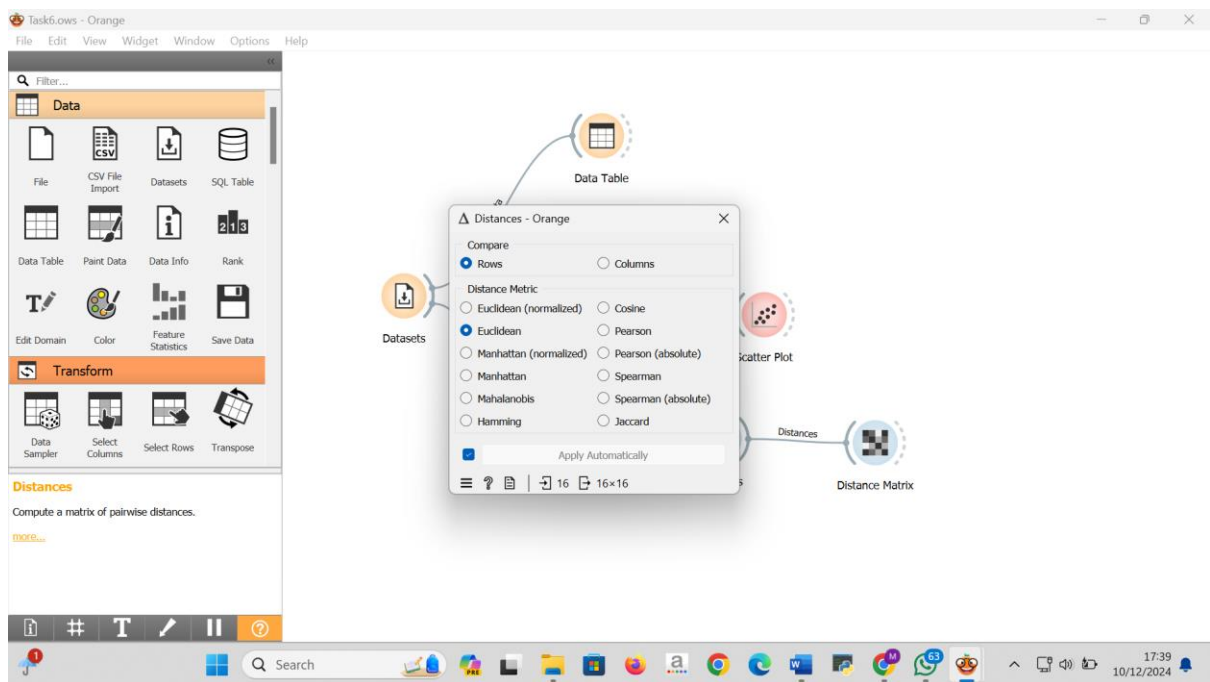
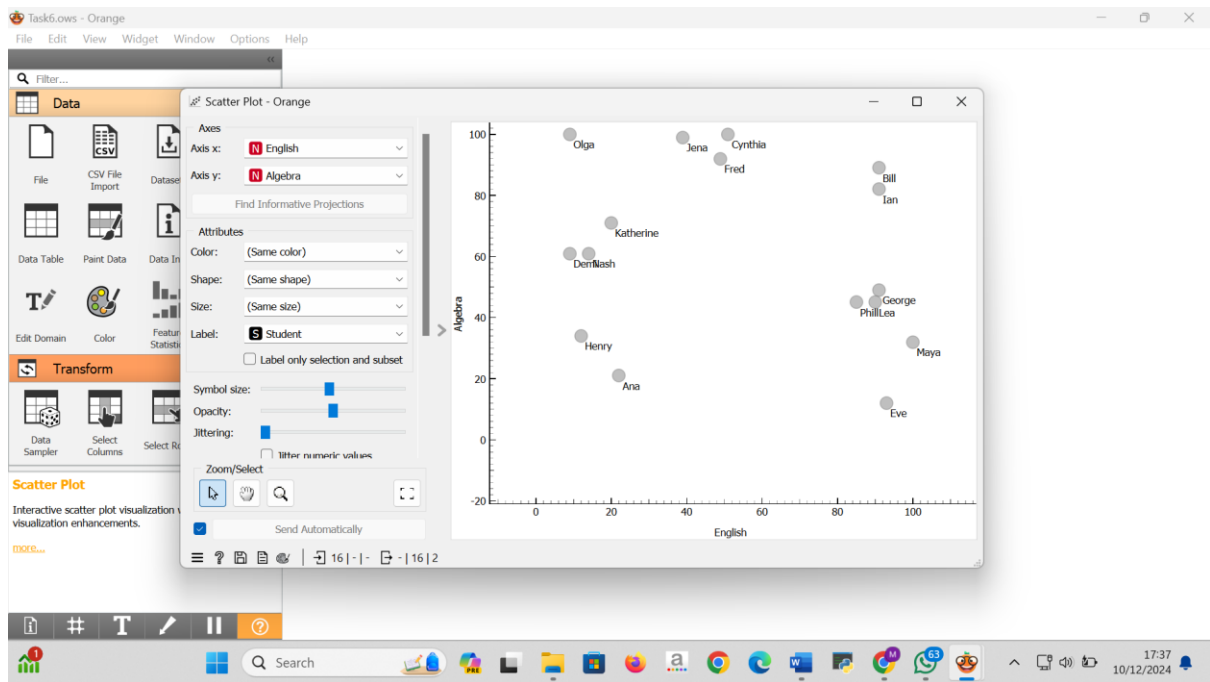
Restore Original Order

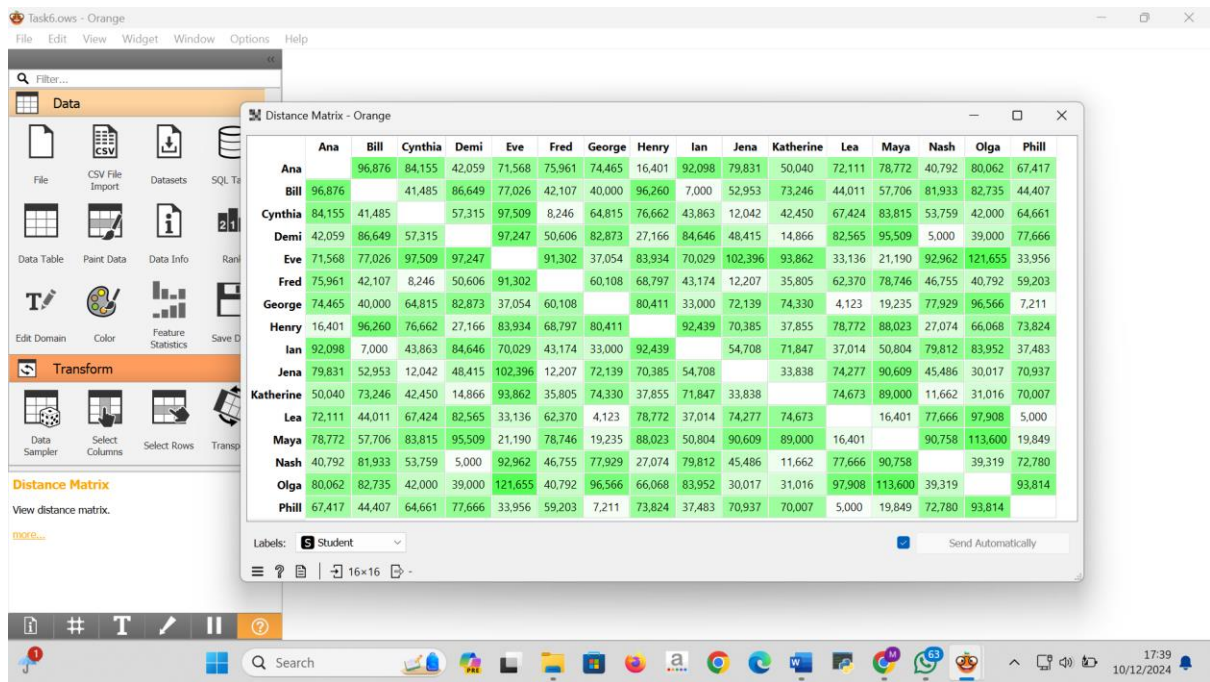
☒ Send Automatically

	Student	English	Algebra
1	Ana	22	21
2	Bill	91	89
3	Cynthia	51	100
4	Demi	9	61
5	Eve	93	12
6	Fred	49	92
7	George	91	49
8	Henry	12	34
9	Ian	91	82
10	Jena	39	99
11	Katherine	20	71
12	Lea	90	45
13	Maya	100	32
14	Nash	14	61
15	Olga	9	100
16	Phill	85	45

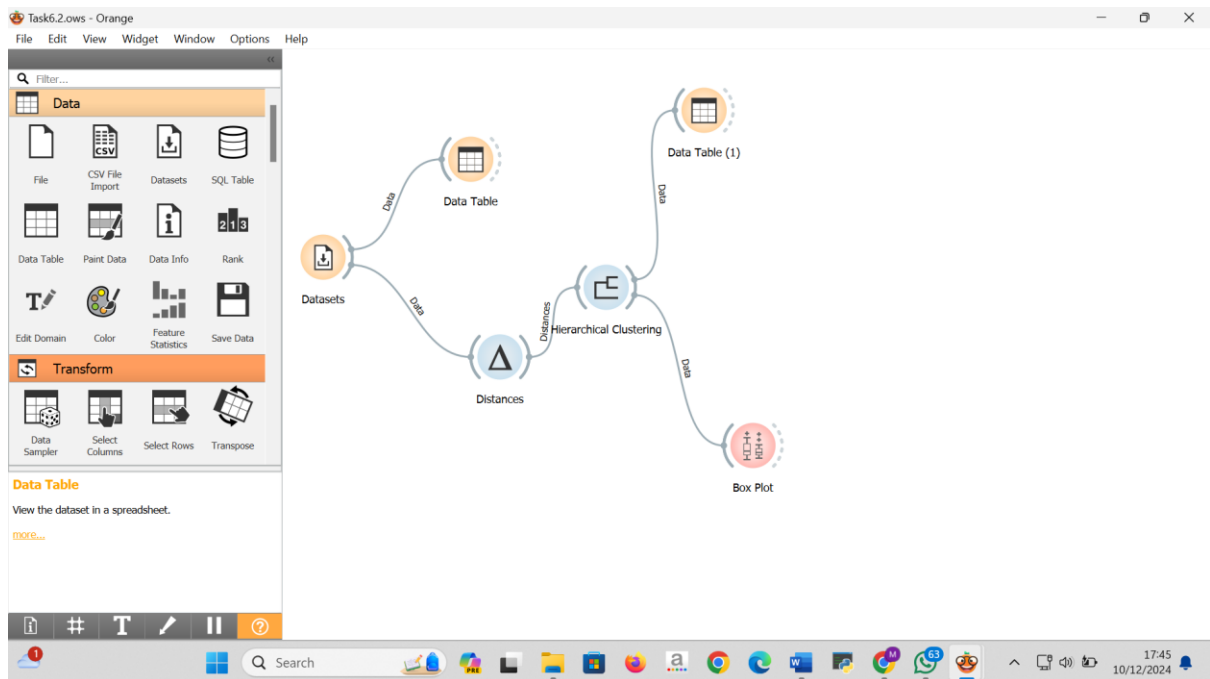
16 | 16

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10/12/2024





Hierarchical Clustering using ODM



Task6.2.ows - Orange

File Edit View Widget Window Options Help

Filter...

Data

File CSV File Import Datasets SQL Table

Data Table Paint Data Data Info Rank

Edit Domain Color Feature Statistics Save Data

Transform

Data Sampler Select Columns Select Rows Transpose

Datasets

Load a dataset from an online repository

more...

Datasets - Orange

Search for data set ...

Show data sets in English

Title	Size	Instances	Variables	Target	Tags
Course Grades	9.2 KB	16	8	none	synthetic, education
BBC3	2.6 MB	1407	3	categorical	text, classification, news
Dendritic cells and monocytes in human blood	19.4 MB	1140	26595	categorical	expression, human, homo-sapiens, ...
Dendritic cells and monocytes in human blood...	18.1 MB	1244	26595	categorical	expression, human, homo-sapiens, ...
Breast Cancer and Docetaxel Treatment	1.8 MB	24	9486	categorical	biology
Smoking effect on B lymphocytes	1.8 MB	79	3001	categorical	genomics
HDI	45.2 KB	188	54	none	economy, geo
ParlaMint	1.7 MB	1000	18	categorical	text, classification, time, politics
SentiNews	5.0 MB	2000	8	categorical	text, sentiment
TKI resistance	1.2 MB	280	468	categorical	spectral
Elections for Rector of the University of Ljubljana...	14.1 KB	26	7	none	education

Description

Course Grades

A small dataset with grades on seven courses (English, French, History, Algebra, Biology, Physics, Physical) that was handcrafted to introduce hierarchical clustering.

16

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Task6.2.ows - Orange

File Edit View Widget Window Options Help

Filter...

Data

File CSV File Import Datasets SQL Table

Data Table Paint Data Data Info Rank

Edit Domain Color Feature Statistics Save Data

Transform

Data Sampler Select Columns Select Rows Transpose

Data Table

View the dataset in a spreadsheet.

more...

Data Table - Orange

Info

16 instances (no missing data)

7 features

No target variable.

1 meta attribute

Variables

☒ Show variable labels (if present)

☒ Visualize numeric values

☒ Color by instance classes

Selection

☒ Select full rows

Restore Original Order

☒ Send Automatically

Student	English	French	History	Algebra	Biology
1 Ana	22	30	32	21	100
2 Bill	91	95	65	89	100
3 Cynthia	51	89	21	100	100
4 Demi	9	15	18	61	100
5 Eve	93	99	39	12	100
6 Fred	49	17	17	92	100
7 George	91	99	97	49	100
8 Henry	12	30	32	34	100
9 Ian	91	80	20	82	100
10 Jena	39	18	19	99	100
11 Katherine	20	50	10	71	100
12 Lea	90	100	45	45	100
13 Maya	100	98	97	32	100
14 Nash	14	4	15	61	100
15 Olga	9	22	8	100	100
16 Phill	85	90	100	45	100

16 | 16

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Task6.2.ows - Orange

File Edit View Widget Window Options Help

Filter...

Data

File CSV File Import Datasets SQL Table

Data Table Paint Data Data Info Rank

Edit Domain Color Feature Statistics Save Data

Transform

Data Sampler Select Columns Select Rows Transpose

Distances

Compute a matrix of pairwise distances.

more...

Distances - Orange

Compare

Rows Columns

Distance Metric

Euclidean (normalized) Cosine

Euclidean Pearson

Manhattan (normalized) Pearson (absolute)

Manhattan Spearman

Mahalanobis Spearman (absolute)

Hamming Jaccard

Apply Automatically

16 16x16

Box Plot

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Task6.2.ows* - Orange

File Edit View Widget Window Options Help

Filter...

Data

File CSV File Import Datasets SQL Table

Data Table Paint Data Data Info Rank

Edit Domain Color Feature Statistics Save Data

Transform

Data Sampler Select Columns Select Rows Transpose

Box Plot

Visualize the distribution of feature values in a box plot

more...

Hierarchical Clustering - Orange

Linkage

Ward

Annotations

Student

Show labels only for subset

Color by: None

Pruning

None

Max depth: 10

Selection

Manual

Height ratio: 75,0 %

Top N: 3

Zoom

Send Automatically

16x16 6 | 16

Fred
Nash
Olga
Cynthia
Ian
Jana
Demi
Katherine
Anna
Henry
George
Maya
Bill
Eve
Lisa

18:01 10/12/2024

Data Table (1) - Orange

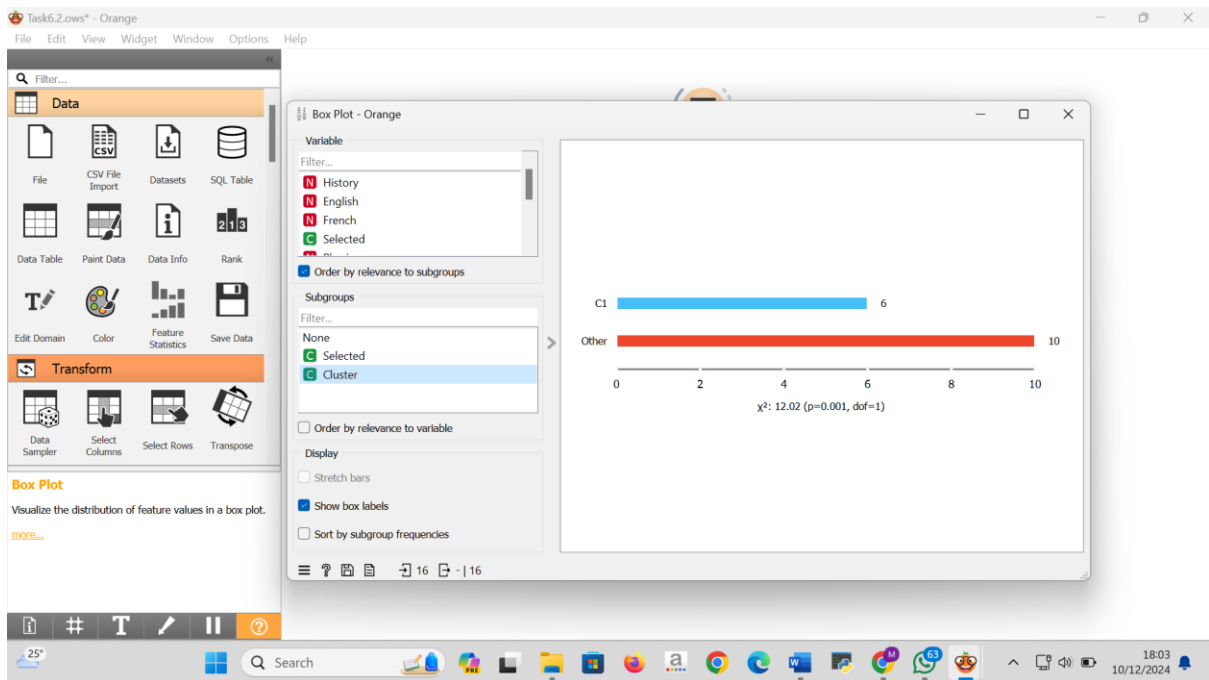
Info
16 instances (no missing data)
7 features
Target with 2 values
1 meta attribute

Variables
☒ Show variable labels (if present)
☐ Visualize numeric values
☒ Color by instance classes

Selection
☒ Select full rows

Restore Original Order
☒ Send Automatically

	Selected	Student	English	French	History	Algebra	Biology	Physics	Physical
1	No	Ana	22	30	32	21	37	46	99
2	No	Bill	91	95	65	89	39	11	29
3	No	Cynthia	51	89	21	100	70	100	27
4	No	Demi	9	15	18	61	100	90	8
5	No	Eve	93	99	39	12	47	17	63
6	No	Fred	49	17	17	92	70	98	73
7	No	George	91	99	97	49	96	81	69
8	No	Henry	12	30	32	34	12	33	96
9	No	Ian	91	80	20	82	93	87	22
10	No	Jena	39	18	19	99	97	77	23
11	No	Katherine	20	50	10	71	99	78	12
12	No	Lea	90	100	45	45	20	15	100
13	No	Maya	100	98	97	32	72	22	37
14	No	Nash	14	4	15	61	42	51	39
15	No	Olga	9	22	8	100	11	92	29
16	No	Phill	85	90	100	45	38	92	21



K-Means Clustering using ODM

