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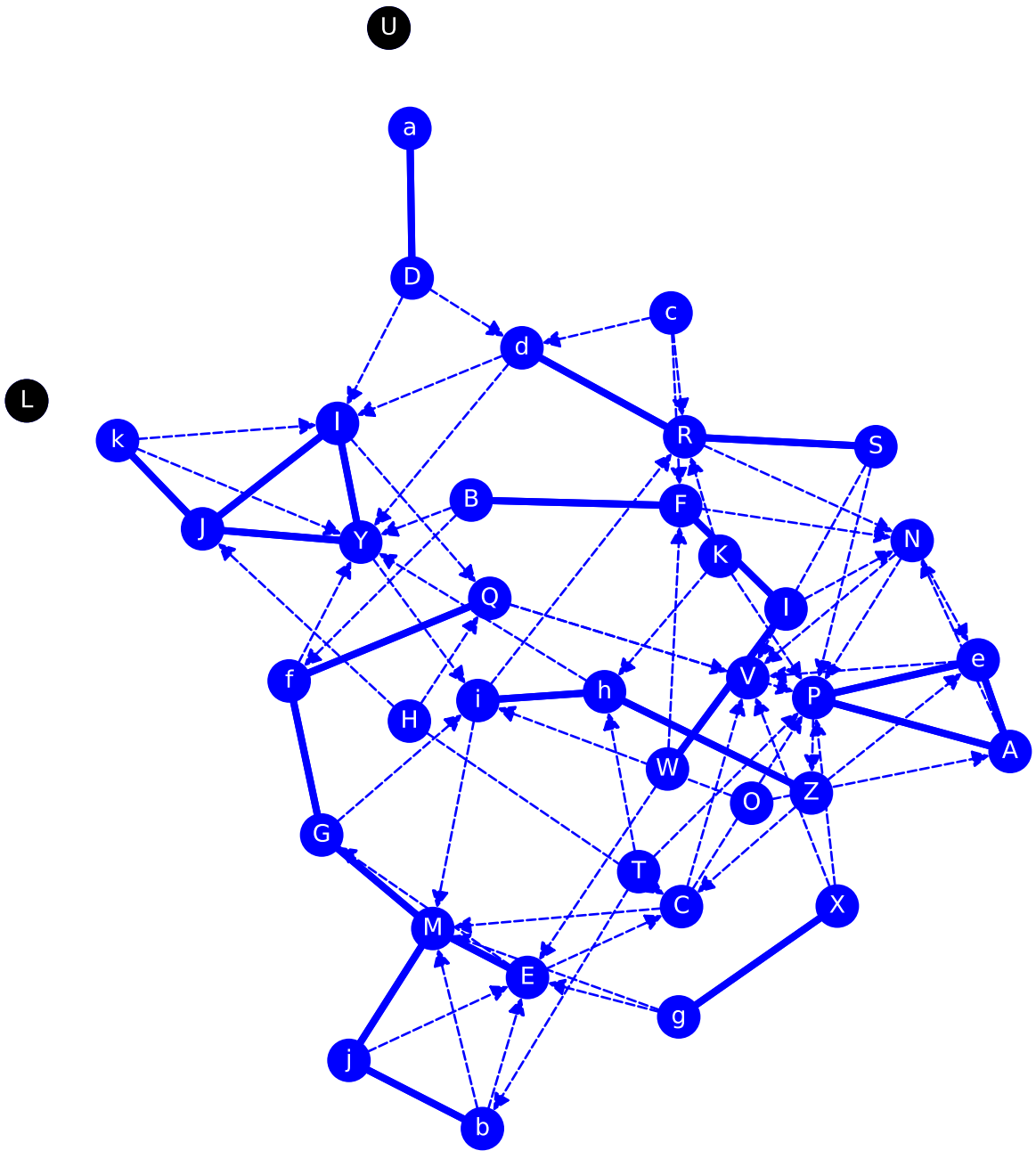
GROUP 1 - DEMO 3 **NETWORK GRAPH**

A. Whom would you choose to spend a free outing with?

NN 38, **NE** 102, **ND** 7%, **NC** 17%, **NT** 28%, **NR** 43%



NN Nodes **NE** Edges **ND** Density **NC** Centralization **NT** Transitivity **NR** Reciprocity

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GROUP 1 - DEMO 3 **RAW SCORES**

A. Whom would you choose to spend a free outing with?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	N, P, e	0.08	0.04	0.01	0.30	0.05	
B	F, Y, f	0.03	0.01	0.02	0.06	0.02	
C	P, M, V	0.08	0.03	0.05	0.28	0.08	
D	a, d, I	0.03	0.01	0.02	0.03	0.01	
E	C, M, G	0.14	0.04	0.05	0.28	0.02	
F	N, B, I	0.11	0.02	0.02	0.11	0.01	
G	f, M, i	0.08	0.04	0.08	0.29	0.02	
H	C, J, Q	0.00	0.01	0.00	0.00	0.01	←
I	N, F, W	0.05	0.01	0.01	0.07	0.01	
J	Y, I, k	0.11	0.04	0.03	0.28	0.01	
K	P, R, h	0.00	0.01	0.00	0.00	0.06	←
L	-	0.00	0.01	0.00	0.00	0.00	⇄
M	E, G, j	0.19	0.06	0.11	0.35	0.01	
N	P, e, V	0.11	0.03	0.03	0.32	0.08	
O	A, i	0.00	0.01	0.00	0.00	0.01	←
P	A, e, Z	0.24	0.07	0.12	0.42	0.02	
Q	P, f, V	0.08	0.03	0.05	0.27	0.07	
R	N, d, S	0.14	0.03	0.08	0.29	0.01	
S	P, V, R	0.03	0.01	0.01	0.22	0.08	
T	P, h, b	0.00	0.01	0.00	0.00	0.05	←
U	-	0.00	0.01	0.00	0.00	0.00	⇄
V	-	0.16	0.05	0.00	0.40	0.00	→
W	F, E, I	0.03	0.01	0.01	0.05	0.01	
X	P, V, g	0.03	0.01	0.00	0.03	0.07	
Y	I, i, J	0.19	0.06	0.13	0.37	0.01	
Z	e, C, h	0.05	0.03	0.08	0.31	0.03	
a	D	0.03	0.01	0.00	0.03	0.00	
b	M, E, j	0.05	0.01	0.00	0.21	0.02	
c	F, d, R	0.00	0.01	0.00	0.00	0.02	←
d	Y, I, R	0.08	0.02	0.03	0.23	0.02	
e	A, P, V	0.11	0.06	0.01	0.34	0.07	
f	Y, G, Q	0.08	0.03	0.05	0.28	0.01	
g	M, E, X	0.03	0.01	0.01	0.03	0.02	
h	Y, i, Z	0.11	0.03	0.07	0.31	0.01	
i	M, R, h	0.11	0.05	0.14	0.35	0.04	
j	M, E, b	0.05	0.03	0.02	0.26	0.02	
k	Y, I, J	0.03	0.02	0.00	0.22	0.01	
l	Y, J, Q	0.14	0.05	0.05	0.29	0.01	

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closenness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄)

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GROUP 1 - DEMO 3 **RANK SCORES**

A. Whom would you choose to spend a free outing with?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	N, P, e	6	10	21	10	9	
B	F, Y, f	8	27	19	24	20	
C	P, M, V	6	18	12	13	1	
D	a, d, l	8	25	20	26	33	
E	C, M, G	4	11	11	13	17	
F	N, B, I	5	22	17	22	34	
G	f, M, i	6	9	6	12	12	
H	C, J, Q	9	31	29	27	31	←
I	N, F, W	7	26	25	23	30	
J	Y, I, k	5	8	15	14	23	
K	P, R, h	9	31	29	27	7	←
L	-	9	31	29	27	36	⇄
M	E, G, j	2	2	4	4	25	
N	P, e, V	5	12	16	7	3	
O	A, i	9	31	29	27	24	←
P	A, e, Z	1	1	3	1	19	
Q	P, f, V	6	16	13	16	4	
R	N, d, S	4	14	7	11	32	
S	P, V, R	8	24	26	19	2	
T	P, h, b	9	31	29	27	8	←
U	-	9	31	29	27	36	⇄
V	-	3	5	29	2	36	→
W	F, E, I	8	29	22	25	27	
X	P, V, g	8	30	27	26	6	
Y	I, i, J	2	3	2	3	29	
Z	e, C, h	7	13	5	8	11	
a	D	8	28	29	26	35	
b	M, E, j	7	23	28	21	15	
c	F, d, R	9	31	29	27	18	←
d	Y, I, R	6	20	14	18	14	
e	A, P, V	5	4	23	6	5	
f	Y, G, Q	6	17	10	15	26	
g	M, E, X	8	30	24	26	16	
h	Y, i, Z	5	15	8	9	22	
i	M, R, h	5	7	1	5	10	
j	M, E, b	7	19	18	17	13	
k	Y, I, J	8	21	29	20	21	
l	Y, J, Q	4	6	9	12	28	

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closenness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄) Very low Low High Very high

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GROUP 1 - DEMO 3 **NODES ORDERED BY RANK SCORES**

A. Whom would you choose to spend a free outing with?

RANK	IC	RANK	PR	RANK	BT	RANK	CL	RANK	HU
1	P	1	P	1	i	1	P	1	C
2	M	2	M	2	Y	2	V	2	S
2	Y	3	Y	3	P	3	Y	3	N
3	V	4	e	4	M	4	M	4	Q
4	E	5	V	5	Z	5	i	5	e
4	R	6	I	6	G	6	e	6	X
4	I	7	i	7	R	7	N	7	K
5	F	8	J	8	h	8	Z	8	T
5	J	9	G	9	I	9	h	9	A
5	N	10	A	10	f	10	A	10	i
5	e	11	E	11	E	11	R	11	Z
5	h	12	N	12	C	12	G	12	G
5	i	13	Z	13	Q	12	I	13	j
6	A	14	R	14	d	13	C	14	d
6	C	15	h	15	J	13	E	15	b
6	G	16	Q	16	N	14	J	16	g
6	Q	17	f	17	F	15	f	17	E
6	d	18	C	18	j	16	Q	18	c
6	f	19	j	19	B	17	j	19	P
7	I	20	d	20	D	18	d	20	B
7	Z	21	k	21	A	19	S	21	k
7	b	22	F	22	W	20	k	22	h
7	j	23	b	23	e	21	b	23	J
8	B	24	S	24	g	22	F	24	O
8	D	25	D	25	I	23	I	25	M
8	S	26	I	26	S	24	B	26	f
8	W	27	B	27	X	25	W	27	W
8	X	28	a	28	b	26	D	28	I
8	a	29	W	29	H	26	X	29	Y
8	g	30	X	29	K	26	a	30	I
8	k	30	g	29	L	26	g	31	H
9	H	31	H	29	O	27	H	32	R
9	K	31	K	29	T	27	K	33	D
9	L	31	L	29	U	27	L	34	F
9	O	31	O	29	V	27	O	35	a
9	T	31	T	29	a	27	T	36	L
9	U	31	U	29	c	27	U	36	U
9	c	31	c	29	k	27	c	36	V

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closenness **HU** Hub

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GROUP 1 - DEMO 3 **TYPES OF EDGES**

A. Whom would you choose to spend a free outing with?

Type I - Non reciprocal edges

X → Y in network A · not Y → X in network A

A N · B Y · B f · C M · C P · C V · D d · D I · E C · E G · F N · G i · H C · H J · H Q · I N · K P · K R · K h · N P · N V · N e · O A · O i · P Z · Q P · Q V · R N · S P · S V · T P · T b · T h · W E · W F · X P · X V · Y i · Z C · Z e · b E · b M · c F · c R · c d · d Y · d I · e V · f Y · g E · g M · h Y · i M · i R · j E · k Y · k I · l Q

Type II - Reciprocal edges

X → Y in network A · Y → X in network A

A P · A e · B F · D a · E M · F I · G M · G f · I W · J Y · J k · J I · M j · P e · Q f · R S · R d · X g · Y I · Z h · b j · h i

Type III - Half symmetrical edges

X → Y in network A · X → Y in network B

Q V · Q f

Type IV - Reversed half symmetrical edges

X → Y in network A · Y → X in network B

f Q

Type V - Full symmetrical edges

X → Y, Y → X in network A · X → Y, Y → X in network B

No edge of this type

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GROUP 1 - DEMO 3 **NETWORK COMPONENTS**

A. Whom would you choose to spend a free outing with?

Connected components

36 A · B · C · D · E · F · G · H · I · J · K · M · N · O · P · Q · R · S · T · V · W · X · Y · Z · a · b · c · d · e · f · g · h · i · j · k · l

22 A · C · E · G · J · M · N · P · Q · R · S · Y · Z · b · d · e · f · h · i · j · k · l

4 J · Y · k · l

E · M · b · j

B · F · I · W

A · N · P · e

3 P · Z · e

F · I · W

C · P · Z

N · V · e

E · M · g

B · Y · f

Y · d · l

F · I · N

D · d · l

Y · h · i

R · c · d

G · M · i

E · G · M

C · E · M

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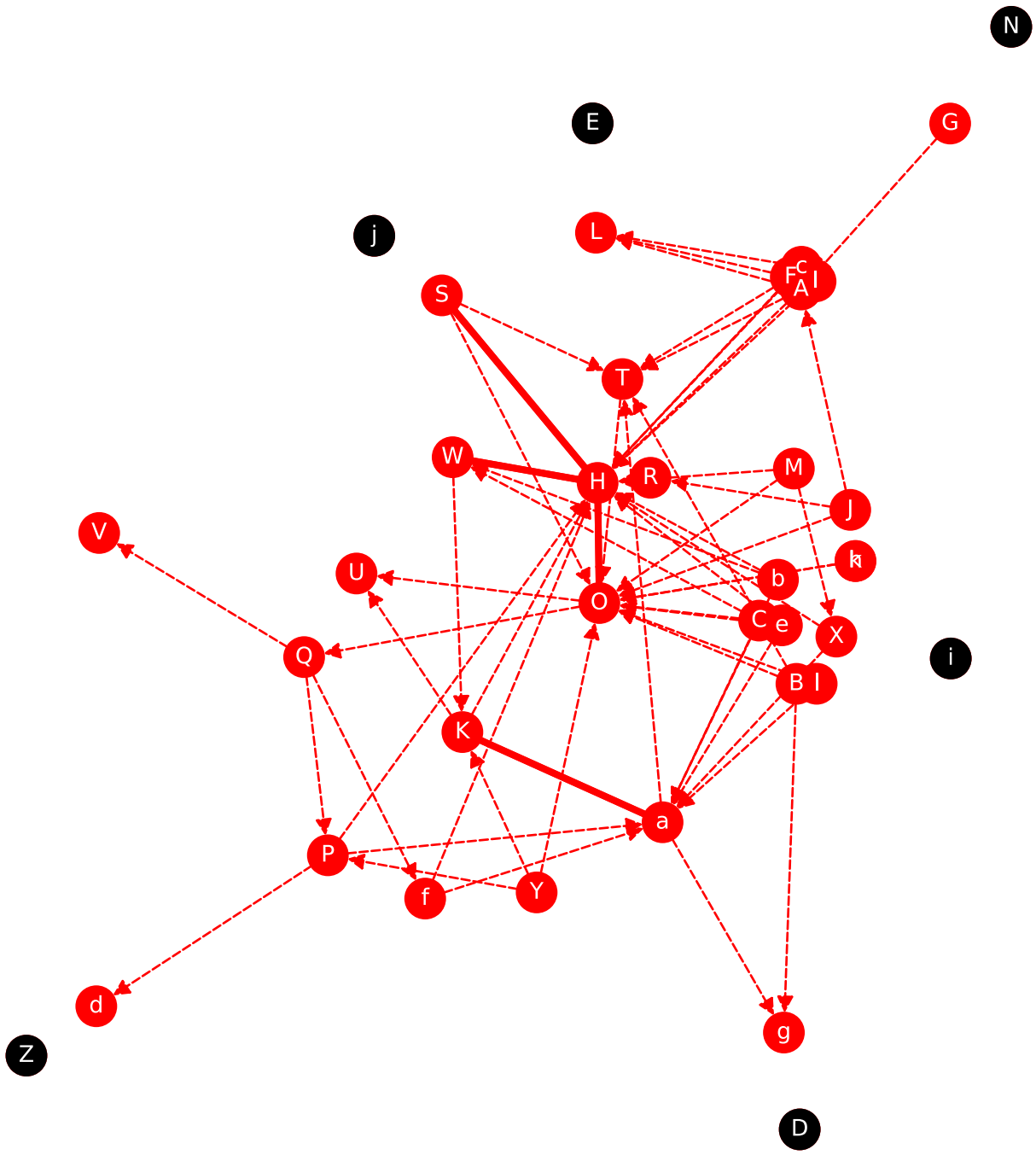
GROUP 1 - DEMO 3 **NETWORK GRAPH**

B. Whom would you not choose to spend a free outing with?

NN 38, **NE** 63, **ND** 4%, **NC** 31%, **NT** 12%, **NR** 13%



NN Nodes **NE** Edges **ND** Density **NC** Centralization **NT** Transitivity **NR** Reciprocity

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GROUP 1 - DEMO 3 **RAW SCORES**

B. Whom would you not choose to spend a free outing with?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	H, L, T	0.05	0.02	0.01	0.05	0.05	
B	T, O, g	0.00	0.01	0.00	0.00	0.03	←
C	O, W, a	0.00	0.01	0.00	0.00	0.05	←
D	-	0.00	0.01	0.00	0.00	0.00	⇄
E	-	0.00	0.01	0.00	0.00	0.00	⇄
F	H, L, T	0.00	0.01	0.00	0.00	0.05	←
G	A	0.00	0.01	0.00	0.00	0.00	←
H	O, W, S	0.38	0.15	0.10	0.47	0.03	
I	H	0.00	0.01	0.00	0.00	0.03	←
J	A, O, R	0.00	0.01	0.00	0.00	0.02	←
K	H, a, U	0.08	0.05	0.02	0.25	0.06	
L	-	0.08	0.02	0.00	0.10	0.00	→
M	H, O, X	0.00	0.01	0.00	0.00	0.06	←
N	-	0.00	0.01	0.00	0.00	0.00	⇄
O	H, U, Q	0.32	0.14	0.13	0.42	0.04	
P	H, a, d	0.05	0.02	0.03	0.21	0.06	
Q	P, V, f	0.03	0.05	0.08	0.27	0.00	
R	-	0.03	0.01	0.00	0.03	0.00	→
S	H, T, O	0.03	0.05	0.01	0.28	0.06	
T	O	0.14	0.05	0.01	0.30	0.02	
U	-	0.05	0.06	0.00	0.29	0.00	→
V	-	0.03	0.02	0.00	0.21	0.00	→
W	H, K	0.08	0.06	0.02	0.30	0.04	
X	H, a	0.03	0.01	0.00	0.03	0.05	
Y	O, K, P	0.00	0.01	0.00	0.00	0.03	←
Z	-	0.00	0.01	0.00	0.00	0.00	⇄
a	T, g, K	0.22	0.05	0.03	0.25	0.02	
b	H, W, a	0.00	0.01	0.00	0.00	0.06	←
c	H, L	0.00	0.01	0.00	0.00	0.04	←
d	-	0.03	0.02	0.00	0.17	0.00	→
e	H, O, a	0.00	0.01	0.00	0.00	0.07	←
f	H, a	0.03	0.02	0.01	0.20	0.05	
g	-	0.05	0.03	0.00	0.21	0.00	→
h	O	0.00	0.01	0.00	0.00	0.02	←
i	-	0.00	0.01	0.00	0.00	0.00	⇄
j	-	0.00	0.01	0.00	0.00	0.00	⇄
k	O	0.00	0.01	0.00	0.00	0.02	←
l	O, a	0.00	0.01	0.00	0.00	0.04	←

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closenness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄)

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GROUP 1 - DEMO 3 **RANK SCORES**

B. Whom would you not choose to spend a free outing with?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	H, L, T	6	14	8	15	8	
B	T, O, g	8	17	13	17	15	←
C	O, W, a	8	17	13	17	9	←
D	-	8	17	13	17	23	⇄
E	-	8	17	13	17	23	⇄
F	H, L, T	8	17	13	17	8	←
G	A	8	17	13	17	22	←
H	O, W, S	1	1	2	1	16	
I	H	8	17	13	17	14	←
J	A, O, R	8	17	13	17	18	←
K	H, a, U	5	7	7	8	4	
L	-	5	13	13	14	23	→
M	H, O, X	8	17	13	17	5	←
N	-	8	17	13	17	23	⇄
O	H, U, Q	2	2	1	2	12	
P	H, a, d	6	11	5	10	6	
Q	P, V, f	7	9	3	7	21	
R	-	7	16	13	16	23	→
S	H, T, O	7	6	11	6	2	
T	O	4	8	9	3	19	
U	-	6	3	13	5	23	→
V	-	7	12	13	9	23	→
W	H, K	5	4	6	4	13	
X	H, a	7	16	12	16	7	
Y	O, K, P	8	17	13	17	17	←
Z	-	8	17	13	17	23	⇄
a	T, g, K	3	5	4	8	20	
b	H, W, a	8	17	13	17	3	←
c	H, L	8	17	13	17	11	←
d	-	7	15	13	13	23	→
e	H, O, a	8	17	13	17	1	←
f	H, a	7	12	10	12	7	
g	-	6	10	13	11	23	→
h	O	8	17	13	17	19	←
i	-	8	17	13	17	23	⇄
j	-	8	17	13	17	23	⇄
k	O	8	17	13	17	19	←
l	O, a	8	17	13	17	10	←

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closenness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄) Very low Low High Very high

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GROUP 1 - DEMO 3 **NODES ORDERED BY RANK SCORES**

B. Whom would you not choose to spend a free outing with?

RANK	IC	RANK	PR	RANK	BT	RANK	CL	RANK	HU
1	H	1	H	1	O	1	H	1	e
2	O	2	O	2	H	2	O	2	S
3	a	3	U	3	Q	3	T	3	b
4	T	4	W	4	a	4	W	4	K
5	K	5	a	5	P	5	U	5	M
5	L	6	S	6	W	6	S	6	P
5	W	7	K	7	K	7	Q	7	X
6	A	8	T	8	A	8	K	7	f
6	P	9	Q	9	T	8	a	8	A
6	U	10	g	10	f	9	V	8	F
6	g	11	P	11	S	10	P	9	C
7	Q	12	V	12	X	11	g	10	I
7	R	12	f	13	B	12	f	11	c
7	S	13	L	13	C	13	d	12	O
7	V	14	A	13	D	14	L	13	W
7	X	15	d	13	E	15	A	14	I
7	d	16	R	13	F	16	R	15	B
7	f	16	X	13	G	16	X	16	H
8	B	17	B	13	I	17	B	17	Y
8	C	17	C	13	J	17	C	18	J
8	D	17	D	13	L	17	D	19	T
8	E	17	E	13	M	17	E	19	h
8	F	17	F	13	N	17	F	19	k
8	G	17	G	13	R	17	G	20	a
8	I	17	I	13	U	17	I	21	Q
8	J	17	J	13	V	17	J	22	G
8	M	17	M	13	Y	17	M	23	D
8	N	17	N	13	Z	17	N	23	E
8	Y	17	Y	13	b	17	Y	23	L
8	Z	17	Z	13	c	17	Z	23	N
8	b	17	b	13	d	17	b	23	R
8	c	17	c	13	e	17	c	23	U
8	e	17	e	13	g	17	e	23	V
8	h	17	h	13	h	17	h	23	Z
8	i	17	i	13	i	17	i	23	d
8	j	17	j	13	j	17	j	23	g
8	k	17	k	13	k	17	k	23	i
8	l	17	l	13	l	17	l	23	j

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closenness **HU** Hub

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GROUP 1 - DEMO 3 **TYPES OF EDGES**

B. Whom would you not choose to spend a free outing with?

Type I - Non reciprocal edges

X → Y in network B · not Y → X in network B

A H | A L | A T | B O | B T | B g | C O | C W | C a | F H | F L | F T | G A | I H | J A | J O | J R | K H | K U | M H | M O | M X | O Q | O U | P H | P a | P d | Q P | Q V | Q f | S O | S T | T O | W K | X H | X a | Y K | Y O | Y P | a T | a g | b H | b W | b a | c H | c L | e H | e O | e a | f H | f a | h O | k O | l O | l a

Type II - Reciprocal edges

X → Y in network B · Y → X in network B

H O | H S | H W | K a

Type III - Half symmetrical edges

X → Y in network B · X → Y in network A

Q V | Q f

Type IV - Reversed half symmetrical edges

X → Y in network B · Y → X in network A

Q f

Type V - Full symmetrical edges

X → Y, Y → X in network B · X → Y, Y → X in network A

No edge of this type

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GROUP 1 - DEMO 3 **NETWORK COMPONENTS**

B. Whom would you not choose to spend a free outing with?

Connected components

32 A · B · C · F · G · H · I · J · K · L · M · O · P · Q · R · S · T · U · V · W · X · Y · a · b · c · d · e · f · g · h · k · l

10 H · K · O · P · Q · S · T · W · a · f

3 H · K · W

O · S · T

H · O · e

H · M · O

B · O · T

H · W · b

H · O · S

H · M · X

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A B GRID

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GROUP 1 - DEMO 3 **SOCIOGRAM**

ID	RP	RJ	GP	GJ	MP	MR	BL	OR	IM	AI	II	ST
A	3	2	3	3	2	0	1	0	5	99	100	controversial
B	1	0	3	3	1	0	1	0	1	97	91	neglected
C	3	0	3	3	0	0	3	0	3	99	94	-
D	1	0	3	0	1	0	1	3	1	103	100	neglected
E	5	0	3	0	1	0	5	3	5	110	112	-
F	4	0	3	3	2	0	4	0	4	104	103	-
G	3	0	3	1	2	0	3	2	3	106	106	-
H	0	14	3	3	0	3	-14	0	14	69	85	rejected
I	2	0	3	1	2	0	2	2	2	104	103	underrated
J	4	0	3	3	3	0	4	0	4	106	106	-
K	0	3	3	3	0	1	-3	0	3	89	85	-
L	0	3	0	0	0	0	-3	0	3	89	85	-
M	7	0	3	3	3	0	7	0	7	111	115	appreciated
N	4	0	3	0	0	0	4	3	4	106	106	-
O	0	12	2	3	0	1	-12	-1	12	71	81	rejected
P	9	2	3	3	2	0	7	0	11	110	118	popular
Q	3	1	3	3	1	0	2	0	4	99	97	-
R	5	1	3	0	2	0	4	3	6	110	115	-
S	1	1	3	3	1	1	0	0	2	96	91	underrated
T	0	5	3	1	0	0	-5	2	5	89	91	rejected
U	0	2	0	0	0	0	-2	0	2	90	85	underrated
V	6	1	0	0	0	0	5	0	7	103	103	-
W	1	3	3	2	1	1	-2	1	4	94	94	-
X	1	1	3	2	1	0	0	1	2	97	94	underrated
Y	7	0	3	3	2	0	7	0	7	110	112	appreciated
Z	2	0	3	0	1	0	2	3	2	104	103	underrated
a	1	8	1	3	1	1	-7	-2	9	80	85	rejected
b	2	0	3	3	1	0	2	0	2	99	94	underrated
c	0	0	3	2	0	0	0	1	0	96	88	neglected
d	3	1	3	0	1	0	2	3	4	104	106	-
e	4	0	3	3	2	0	4	0	4	104	103	-
f	3	1	3	2	2	0	2	1	4	103	103	-
g	1	2	3	0	1	0	-1	3	3	99	100	-
h	4	0	3	1	2	0	4	2	4	108	109	-
i	4	0	3	0	1	0	4	3	4	108	109	-
j	2	0	3	0	2	0	2	3	2	106	106	underrated
k	1	0	3	1	1	0	1	2	1	101	97	neglected
l	5	0	3	2	2	0	5	1	5	108	109	-

RP Received preferences **RJ** Received rejections **GP** Given preferences **GJ** Given rejections **MP** Mutual preferences **MJ** Mutual rejections **OR** Orientation **IM** Impact **MP** Balance **AI** Affiliation coefficient **II** Influence coefficient **ST** Status in the group Very low Low High Very high

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GROUP 1 - DEMO 3 **SOCIOGRAM**

Cohesion index : 0.58

ID	Count	Median	Mean	Std	Min	P25	P50	P75	Max
Received preferences	38	2	2.68	2.27	0	1	2	4	9
Received rejections	38	0	1.66	3.18	0	0	0	2	14
Given Preferences	38	3	2.68	0.87	0	3	3	3	3
Given rejections	38	2	1.66	1.32	0	0	2	3	3
Mutual preferences	38	1	1.16	0.89	0	0	1	2	3
Mutual rejections	38	0	0.21	0.58	0	0	0	0	3
Balance	38	2	1.03	4.61	-14	0	2	4	7
Orientation	38	0	1.03	1.38	-2	0	0	2	3
Impact	38	4	4.34	3.05	0	2	4	5	14
Affiliation coefficient raw	38	5	3.21	5.71	-14	1	5	7	10
Influence coefficient raw	38	5	4.87	3.26	-1	2	5	7	11
Affiliation coefficient	38	103	100.00	10.00	69	96	103	106	111
Influence coefficient	38	101	100.00	10.00	81	91	101	106	118

Std Standard Deviation **Min** Minimum value **P25** 25° percentile **P50** 50° percentile **P75** 75° percentile **Max** Maximum value

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