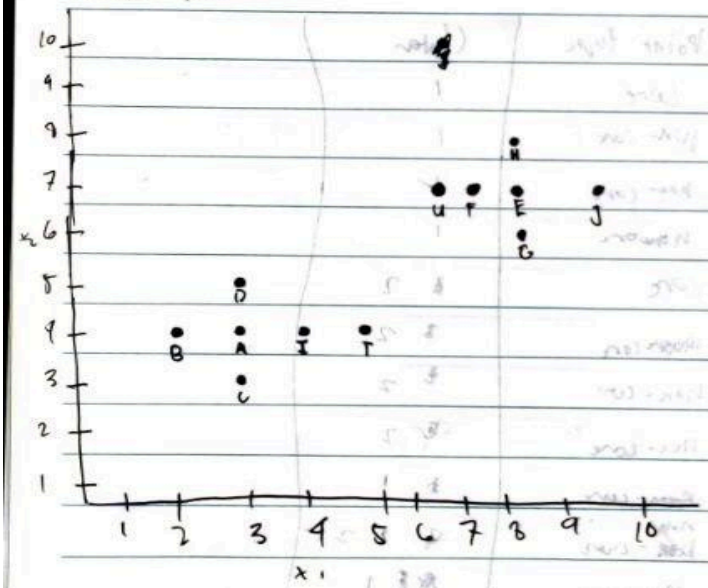
Stephen Ace F.Sy

NO.:
DATE:

Customer	x_1 Avg bet per visit	x_2 Visits Per Month
A	3	4
B	2	4
C	3	3
D	3	5
E	9	7
F	9 8	7
G	9 9	6
H	9	8
I	10 4	4
J	8 10	7
T	7 5	4
U	7	7

eps = 1 min_samples = 2

Scatter plot



7.

NO.:
DATE:

(1)

	A	B	C	D	E	F	G	H	I	J	T	U
A (3,1)	0	1	1	1	[illegible]	[illegible]	6.3	7.2	1	7.6	2	5
B (2,9)	1	0	1.9	1.9	7.6	6.7	7.2	8	2	8.5	3	5.8
C (3,7)	1	1.9	0	2	7.2	6.9	6.7	7.8	1.9	8	7.2	5.6
D (3,5)	1	1.4	2	0	6.3	5.3	6	6.7	1.9	7.2	2.2	4.5
E (9,7)	6.7	7.6	7.2	6.3	0	1	1	1	5.8	1	5	2
F (8,7)	5.8	6.7	6.9	5.3	1	0	1.9	1.9	5	2	4.2	1
G (4,6)	6.3	7.2	6.7	6	1	1.9	0	2	5.3	1.4	4.7	2.2
H (9,8)	7.2	8	7.8	6.7	1	1.9	2	0	6.9	1.9	5.7	[illegible] 2.2
I (9,7)	1	2	1.9	1.9	5.8	5	5.3	6.9	0	6.7	1	[illegible] 4.2
J (10,7)	7.6	8.5	8	7.2	1	2	1.9	1.9	6.7	0	5.0	3
T (5,9)	2	3	2.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	5.8	0	3.6
U (7,7)	5	5.8	5.6	4.5	2	1	2.2	2.2	4.2	3	[illegible]	0

T7-8

Customer	Neighbours pts	No Neighbours	Point type	Cluster
A	B,C,D,I	4	core	1
B	A [illegible]	1	non-core	1
C	A	1	non-core	1
D	A	1	non-core	1
E	F, G, H, J	4	core	2
F	E, H	2	non-core	2
G	E	1	non-core	2
H	E	1	non-core	2
I	A, T	[illegible] 2	[illegible]	1
J	E, F	1	non-core	2
T	I	1	non-core	1
U	F	1	non-core	2

NO.:

NO.:
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4-A (7,7) (3,4)

$\sqrt{(3-7)^2+(4-7)^2}$

$(-4)^2+(-3)^2$

$16+9$

$\sqrt{25}$

5

4-B (7,7) (3,3)

$(7-7)+(3-7)$

(0^2) (-4)

5.6

4-C (7,7) (3,5)

$(3-7)$ $(5-7)$

-4^2 $5-7=-2^2$

$16+4$

9.4

4-D (7,7) (2,4)

$\sqrt{(2-7)^2+(4-7)^2}$

5^2+3^2

$25+9$

$\sqrt{34}$

4-E (7,7) (9,7)

$9-7$

$(9-7)$

2

$\sqrt{4}$

4-F (7,7) (8,7)

$(8-7)$ $(7-7)$

1^2 0

1

4-G (7,7) (4,6)

$(4-7)^2+(6-7)$

3^2+1^2

$9+1$

5

4-H (7,7) (4,3)

$(4-7)+(3-7)$

3^2 4^2

$9+16$

5

4-I (7,9) (4,4)

9.2

4-J (7,7) (10,7)

$(10-7)$ $(7-7)^2$

3^2+0

9

NO.:
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A-B $\sqrt{(3-2)^2+(9-9)^2}$

(x_1, y_1) $(3,9)$ $(2,9)$

$(x_2-x_1)^2 + (y_2-y_1)^2$

$(2-3)^2 + (9-9)^2$

$(3,9)(5,9)$

$(5-3)^2 (9-9)$

2^2 $\sqrt{4}$

Skyler Ave Equation

T-A

$\sqrt{(5-3)^2+(3-9)^2}$

$\sqrt{(8-5)^2+(9-9)^2}$

$(2)^2 + 0$

$\sqrt{4}$

$= 2$

T-B

$(5,9)(2,9)$

$\sqrt{(5-2)^2+(9-9)^2}$

$\sqrt{9}$

3

T-C

$(5,9)(3,3)$

$\sqrt{(3-5)^2+(3-9)^2}$

$4 + 1^2$

T-D $(5,9)$ $(3,7)$

$\sqrt{(3-5)^2+(7-9)^2}$

$\sqrt{(3-5)^2 (5-7)}$

2^2

$4 + 1^2$

$\sqrt{5}$

$0 + 1$

1

$(5,9)(3,5)$

T-E $(3,9)(3,7)$

$\sqrt{(3-9)^2+(3-7)^2}$

$6^2 + 4^2$

$36 + 16$

$\sqrt{52}$

7.2

T-D $(5,9)(7,9)$

$\sqrt{(7-5)^2+(9-9)^2}$

$(2)^2 + 0$

$\sqrt{4}$

$= 2$

T-E $(3,9)(3,7)$

$\sqrt{(3-3)^2+(9-7)^2}$

$0^2 + 2^2$

$\sqrt{4}$

$= 2$

T-F $(5,9)(8,7)$

$\sqrt{(8-5)^2+(7-9)^2}$

$3^2 + 2^2$

$\sqrt{13}$

T-G $(5,9)(9,6)$

$\sqrt{(9-5)^2+(6-9)^2}$

$4^2 + 3^2$

$16 + 9$

$\sqrt{25}$

5

T-H $(8,9)(9,0)$

$(9-5)+(8-9)^2$

$4^2 + 9^2$

$\sqrt{32}$

5.7

T-I $(5,9)(9,9)$

$(9-5)^2+(9-9)$

4^2

1

$(5,9)(10,7)$

$(10-5)^2+(7-9)$

$5^2 + 3^2$

$25+4$

$\sqrt{29}$

$= 5.8$

$(3,9)(9,7)$

$(7-5)^2+(7-9)^2$

$2^2 + 3^2$

$4 + 9$

$\sqrt{13}$