Review 2

LEAN START-UP MANAGEMENT

MGT1022

SLOT TE2

SUBMITTED BY – **ANSH MEHTA (17BCE2066)**

1) How often do you travel in a bus ?

ANS-

Age	QUERY
19	Once in a month
20	Once in a month
20	Once in a month
20	Once in a year
18	Very frequently
20	Once in a year
19	Once in a month
19	Once in a month
19	Once in a month
22	Very frequently
36	Once in a month
19	Two - Three times in a year
19	Once in a month
20	Very frequently
18	Once in a month
19	Once in a month
19	Once in a month
20	Once in a month
18	Two - Three times in a year
19	Once in a week
19	Two - Three times in a year
20	Two - Three times in a year
18	Once in a month
20	Two - Three times in a year
19	Two - Three times in a year
20	Once in a month
19	Two - Three times in a year
20	Two - Three times in a year
20	Two - Three times in a year
19	Once in a week
29	Two - Three times in a year
19	Once in a month
19	Two - Three times in a year
20	Once in a month
19	Very frequently
18	Once in a month
20	Once in a month
20	Two - Three times in a year
19	Two - Three times in a year
20	Two - Three times in a year
18	Once in a month
20	Once in a month
18	Once in a month
20	Two - Three times in a year
20	Once in a month
19	Two - Three times in a year
18	Two - Three times in a year

19	Once in a month
20	Two - Three times in a year
47	Two - Three times in a year
26	Once in a month
50	Two - Three times in a year
18	Once in a week
19	Once in a month

2) In which one of the following situation, you won't mind travelling ?

ANS –

QUERY
1
2
1
1
1
2
1
1
2
2
1
1
2
2
2
1
2
4
1
2
1
1
1
1
4
2
1
2
2
2
1
2
2
2
3
1

1
2
2
4
1
1
1
1
1
1
1
1
2
1
1
1
1
2

Result:

Category	Frequency	Percentages
1	30	55.55555556
2	20	37.03703704
3	1	1.851851852
4	3	5.555555556
	54	100

Question 3,4,5,7:

Answer:

Response	Do you always get a seat to sit inside a public bus ?	Do you agree that internal space and number of seats are sufficient in public buses ?	Have you faced any injury in past due to overcrowding in buses ?	The bus always leaves the pick-up point and arrives at destination on time ?
1	Agree	Disagree	Neutral	Disagree
2	Neutral	Disagree	Disagree	Agree
3	Neutral	Strongly disagree	Agree	Strongly disagree
4	Neutral	Disagree	Strongly disagree	Neutral

5	Neutral	Strongly disagree	Disagree	Neutral
6	Disagree	Agree	Disagree	Neutral
7	Disagree	Strongly disagree	Neutral	Strongly disagree
8	Disagree	Strongly agree	Neutral	Neutral
9	Disagree	Strongly disagree	Disagree	Strongly disagree
10	Neutral	Strongly disagree	Strongly agree	Strongly disagree
11	Strongly disagree	Agree	Disagree	Disagree
12	Strongly disagree	Disagree	Strongly disagree	Disagree
13	Neutral	Disagree	Agree	Strongly disagree
14	Disagree	Strongly disagree	Neutral	Strongly disagree
15	Disagree	Neutral	Neutral	Disagree
16	Neutral	Neutral	Strongly disagree	Strongly disagree
17	Disagree	Disagree	Disagree	Strongly disagree
18	Agree	Neutral	Disagree	Agree
19	Disagree	Disagree	Neutral	Neutral
20	Neutral	Disagree	Strongly agree	Agree
21	Disagree	Disagree	Disagree	Strongly disagree
22	Neutral	Neutral	Disagree	Neutral
23	Neutral	Agree	Disagree	Disagree
24	Neutral	Neutral	Neutral	Disagree
25	Neutral	Agree	Strongly disagree	Neutral
26	Neutral	Disagree	Agree	Agree
27	Neutral	Disagree	Strongly disagree	Neutral
28	Agree	Neutral	Neutral	Neutral
29	Neutral	Agree	Disagree	Disagree
30	Disagree	Disagree	Agree	Neutral
31	Strongly Agree	Agree	Strongly disagree	Agree
32	Neutral	Disagree	Strongly disagree	Strongly agree
33	Neutral	Neutral	Disagree	Neutral
34	Strongly disagree	Strongly disagree	Neutral	Disagree
35	Neutral	Agree	Agree	Agree
36	Neutral	Disagree	Disagree	Strongly disagree

37	Disagree	Strongly disagree	Neutral	Neutral
38	Disagree	Neutral	Neutral	Neutral
39	Disagree	Disagree	Neutral	Neutral
40	Neutral	Disagree	Neutral	Disagree
41	Disagree	Disagree	Agree	Strongly disagree
42	Neutral	Strongly disagree	Agree	Strongly disagree
43	Agree	Neutral	Disagree	Agree
44	Strongly disagree	Neutral	Strongly disagree	Neutral
45	Disagree	Strongly agree	Strongly disagree	Neutral
46	Strongly disagree	Disagree	Agree	Disagree
47	Neutral	Agree	Disagree	Neutral
48	Agree	Disagree	Disagree	Strongly disagree
49	Neutral	Disagree	Neutral	Disagree
50	Neutral	Neutral	Agree	Neutral
51	Neutral	Disagree	Agree	Strongly disagree
52	Disagree	Disagree	Disagree	Disagree
53	Agree	Agree	Strongly disagree	Neutral
54	Disagree	Disagree	Neutral	Neutral
Counts(==countif)				
Strongly agree	1	2	2	1
Agree	6	9	10	7
Neutral	25	11	15	20
Disagree	17	23	17	12
Strongly disagree	5	9	10	14
Total	54	54	54	54
Strongly agree(%)	2%	4%	4%	2%
Agree(%)	11%	17%	19%	13%
Neutral(%)	46%	20%	28%	37%
Disagree(%)	31%	43%	31%	22%
Strongly disagree(%)	9%	17%	19%	26%
Total	100%	100%	100%	100%
Max(%)	Neutal	Disagree	Disagree	Neutral
Min(%)	Strongly agree	Strongly agree	Strongly agree	Strongly agree

Question 9: Have you ever experienced rude behaviour by driver or conductor ?

Answer:

Data:

Gender	Have you ever experienced rude behaviour by driver or conductor ?
Male	Yes
Male	Yes
Male	Yes
Male	No
Female	No
Male	Yes
Male	Yes
Female	Maybe
Male	Yes
Female	Maybe
Male	Yes
Male	Yes
Male	Maybe
Male	Yes
Male	Maybe
Male	No
Male	No
Male	Maybe
Male	Maybe
Male	No
Male	No
Female	No
Female	Maybe
Male	No
Male	Maybe
Female	Maybe
Female	Maybe
Female	No
Female	Yes
Female	Yes
Female	No
Male	No
Female	Yes
Male	No
Male	Yes
Male	No
Male	Yes

Male	Maybe
Male	Maybe
Male	No
Male	Yes
Male	Yes
Male	No
Male	Maybe
Male	No
Male	Maybe
Male	Yes
Male	Yes
Female	No
Female	No
Female	Maybe
Male	No
Male	Maybe
Male	No

Analysis and Result:

Observed				
	Yes	No	Maybe	Total
Male	15	14	10	39
Female	3	6	6	15
Total	18	20	16	54
Expected				
	Yes	No	Maybe	
Male	13	14.44444444	11.55555556	
Female	5	5.555555556	4.444444444	
Total	18	20	16	
CHI-Squared				
	Yes	No	Maybe	Total
Male	0.307692308	0.013675214	0.209401709	0.530769231
Female	0.8	0.035555556	0.544444444	1.38
Total	1.107692308	0.049230769	0.753846154	1.910769231

Degree of Freedom(df) = (rows-1)*(col-1)=1*2=2		Critical value (at 5%) = 5.9915	
H0 : There is no association between gender and behaviour of driver.			

				p	a
H1 : There is an association between gender and behaviour of driver.					
				p	a
				0.384664168	0.05
1.91 < 5.99	Accept H0				
p>a	No association				

Question 10: Have you ever experienced rash driving/competition by driver while travelling in an bus?

Answer:

Data:

Gender	Query
Male	Yes
Male	Yes
Male	Yes
Male	No
Female	Maybe
Male	No
Male	Yes
Female	Maybe
Male	Yes
Female	Yes
Male	Yes
Male	Yes
Male	Maybe
Male	Yes
Male	No
Male	Yes
Male	No
Male	Maybe
Male	Maybe
Male	No
Male	No
Female	No
Female	No
Male	No
Male	Maybe
Female	No

Female	No
Female	Yes
Female	Yes
Female	Yes
Female	No
Male	No
Female	Yes
Male	Yes
Male	Yes
Male	No
Male	Yes
Male	Yes
Male	Maybe
Male	Yes
Male	Maybe
Male	Maybe
Male	Maybe
Male	Yes
Male	No
Male	Maybe
Male	Maybe
Male	Yes
Female	Maybe
Female	No
Female	Yes
Male	Yes
Male	No
Male	No

Observation and Result:

Observed				
	Yes	No	Maybe	Total
Male	16	12	10	38
Female	6	6	3	15
Total	22	18	13	54
Expected				
	Yes	No	Maybe	
Male	15.48148148	12.66667	9.148148	
Female	6.111111111	5	3.611111	
Total	18	20	16	
CHI-Squared				
	Yes	No	Maybe	Total

Male	0.017366649	0.035088	0.079322	0.131777
Female	0.002020202	0.2	0.103419	0.305439
Total	0.019386851	0.235 088	0.182741	0.437216

Degree of Freedom(df) = (rows-1)*(col-1)=1*2=2				Critical value (at 5%) = 5.9915		
H0 : There is no association between gender and behaviour of driver.						
H1 : There is an association between gender and behaviour of driver.						
					p	a
					0.803637	0.05
1.91 < 5.99	Accept H0					
p>a	No association					

Question 12: Have you ever experienced sexual harassment / misbehaviour at bus stop or inside bus?

Answer:

Gender	Query
Male	No
Male	No
Male	No
Male	No
Female	No
Male	No
Male	Yes
Female	No
Male	No
Female	No
Male	No
Male	No
Male	No
Male	No
Male	No
Male	No
Male	No
Male	Maybe
Male	No
Male	No
Male	No
Female	No
Female	Yes
Male	Maybe
Male	Yes
Female	Yes
Female	Yes
Female	Maybe

Female	No
Female	Yes
Female	No
Male	No
Female	Yes
Male	No
Male	Yes
Male	No
Male	No
Male	No
Male	No
Male	No
Male	No
Male	Maybe
Male	No
Male	Maybe
Male	No
Male	No
Male	Maybe
Male	No
Female	No
Female	No
Female	Yes
Male	No
Male	No
Male	No

Observation and Result:

Observed					
	Yes	No	Maybe	Total	
Male	3	31	5	39	
Female	6	8	1	15	
Total	9	39	6	54	
Expected					
	Yes	No	Maybe		
Male	6.5	28.16667	4.33333		
Female	2.5	10.83333	1.66666 7		
Total	18	20	16		
CHI-Squared					
	Yes	No	Maybe	Total	

Male	1.884615385	0.28501	0.102564	2.272189	
Female	4.9	0.741026	0.266667	5.907692	
Total	6.784615385	1.026036	0.369231	8.179882	
Degree of Freedom(df) = (rows-1)*(col-1)=1*2=2			Critical value (at 5%) = 5.9915		
H0 : There is no association between gender and behaviour of driver.					
H1 : There is an association between gender and behaviour of driver.					
				p	a
				0.01674	0.05
1.91 < 5.99	Accept H0				
p>a	No association				

Question 13: Have you ever felt the need of security personal at bus stop or inside bus?

Answer:

Data:

Gender	Query
Male	Yes
Male	No
Male	Yes
Male	No
Female	Maybe
Male	Yes
Male	Yes
Female	Maybe
Male	Yes
Female	Yes
Male	No
Male	Maybe
Male	Maybe
Male	No
Male	Maybe
Male	No
Male	Yes
Male	Maybe
Male	No
Male	Yes

Male	Yes
Female	Maybe
Female	Maybe
Male	No
Male	Yes
Female	Yes
Female	Yes
Female	No
Female	No
Female	Yes
Female	No
Male	No
Female	Yes
Male	Yes
Male	Yes
Male	Yes
Male	Maybe
Male	Yes
Male	Yes
Male	Yes
Male	No
Male	Maybe
Male	No
Male	Yes
Male	No
Male	Maybe
Male	Maybe
Male	Maybe
Female	Yes
Female	No
Female	Yes
Male	No
Male	Yes
Male	No

Observation and Result:

Observed					
	Yes	No	Maybe	Total	
Male	17	13	9	39	
Female	7	4	4	15	
Total	24	17	13	54	
Expected					
	Yes	No	Maybe		
Male	17.33333333	12.277778	9.388889		
Female	6.666666667	4.722222	3.611111		
Total	18	20	16		

	Yes	No	Maybe	Total	
CHI-Squared					
	Yes	No	Maybe	Total	
Male	0.006410256	0.042484	0.016108	0.065002	
Female	0.016666667	0.110458	0.04188	0.169005	
Total	0.023076923	0.152941	0.057988	0.234006	
Degree of Freedom(df) = (rows-1)*(col-1)=1*2=2			Critical value (at 5%) = 5.9915		
H0 : There is no association between gender and behaviour of driver.					
H1 : There is an association between gender and behaviour of driver.					
				p	a
				0.889582	0.05
1.91 < 5.99	Accept H0				
p>a	No association				

Question 14: Which one of the following you consider as biggest problem while travelling in buses?

Answer:

Data:

Query
Travelling Time
Overcrowding
Safety (Misbehaviour/Harassment)
Overcrowding
Overcrowding
Overcrowding
Travelling Time
Overcrowding
Travelling Time
Overcrowding
Overcrowding
Overcrowding
Overcrowding
Overcrowding
Overcrowding

Safety (Misbehaviour/Harassment)
Overcrowding
Safety (Misbehaviour/Harassment)
Overcrowding
Travelling Time
Travelling Time
Safety (Misbehaviour/Harassment)
Safety (Misbehaviour/Harassment)
Overcrowding
Overcrowding
Safety (Misbehaviour/Harassment)
Safety (Misbehaviour/Harassment)
Safety (Misbehaviour/Harassment)
Safety (Misbehaviour/Harassment)
Safety (Misbehaviour/Harassment)
Overcrowding
Overcrowding
Safety (Misbehaviour/Harassment)
Safety (Misbehaviour/Harassment)
Safety (Misbehaviour/Harassment)
Overcrowding
Overcrowding
Overcrowding
Overcrowding
Safety (Misbehaviour/Harassment)
Safety (Misbehaviour/Harassment)
Overcrowding
Overcrowding
Overcrowding and safety
Safety (Misbehaviour/Harassment)
Overcrowding
Travelling Time
Overcrowding
Safety (Misbehaviour/Harassment)
Travelling Time
Safety (Misbehaviour/Harassment)
Overcrowding
Cost
Overcrowding

Observation:

Safety (Misbehaviour/Harassment)	19
Overcrowding	28
Cost	1
Travelling Time	6

Result:

total	54
mode	Overcrowding