AN EMPIRICAL STUDY OF CUSTOMERS PREFERENCES REGARDING STATE BANK OF INDIA

Dr. Mayuri Pandya¹, Ravi Bhatt²

Head Department of Statistics¹, M.Sc. Student of Department of Statistics², Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar – 364002, Gujarat, India.

ABSTRACT

State Bank of India's (SBI) Customer satisfactions has emerged as an important segment of overall development of SBI and so far has delivered value to the customers. Since, the need of study has been aroused in order to see the factors influencing the customers to prefer SBI in Gujarat.

We study the comparisons of preferences of customers for

- Appropriate functioning of ATM machine of SBI
- There are no hidden charges taken by SBI
- SBI does regular up gradation in its technology
- Employees of the SB<mark>I always respond to request</mark>

We study above comparisons of preferences of the customers of SBI in Gujarat using ANOVA and Post hoc test.

INTRODUCTION

G.S. Sureshchandar (2002) has studied the relationship between service quality and customer satisfaction – a factor specific approach. They view customer satisfaction as a multi dimensional construct. Service quality and customer satisfaction are inarguably the two core concepts that are at the crux of the marketing theory and practice (Spreng and Mackoy, 1996). Sergio Zani, Lara Berzieri (2008) has studied the measuring customer satisfaction using ordinal variables: an application in a survey on a contact center. In today's world of intense competition, the key to sustainable competitive advantage lies in delivering high quality service that will in turn result in satisfied customers (Shemwell *et al.*, 1998). The overall satisfaction may be measured by a single direct question or by several manifest variables relating to the different domains of satisfaction (Montinaro and Chirico, 2006). These variables are often on ordinal scale with different numbers of categories (Likert scale with 5 modalities, scores from 1 to 5, and so on) (De Luca, 2007). Generally, the responses to the items are scored 1, 2, 3, 4, and 5 (for Likert scales) and so on, to indicate increasing levels of customer satisfaction. In this paper we focused on customer perception of SBI.

OBJECTIVES OF THE STUDY

The main objectives of the present study are as follows:

- 1. To develop a profile of SBI Customers of Gujarat
- 2. To do detailed frequency analyses of Customers
- 3. To analyzed for five education group& their job category of customer's preference of "Appropriate functioning of ATM machine of SBI Bank of SBI Bank".

- To do comparison among five education group& their job category of customer's preference for "There are no hidden charges taken by bank".
- To do comparison among five education group& their job category of customer's preference for "Bank does regular up gradation in its technology"
- To do comparison among five education group& their job category of customer's preference for "Employees of the bank always respond to request"

HYPOTHESIS OF THE STUDY

The study is based on the formulation of the following hypotheses:

H0: Mean number of preferences for different education group of SBI customers for "Appropriate functioning of ATM machine of SBI Bank" is same.

H0: Mean number of preferences for different job category of SBI customers for "Appropriate functioning of ATM machine of SBI Bank" is same.

H0: Mean number of preferences for different education group of SBI customers for "There are no hidden charges taken by bank" is same.

H0: Mean number of preferences for different job category of SBI customers for "There are no hidden charges taken by bank" is same.

H0: Mean number of preferences for different education group of SBI customers for "Bank does regular up gradation in its technology" is same.

H0: Mean number of preferences for different job category of SBI customers for "Bank does regular up gradation in its technology" is same.

H0: Mean number of preferences for different education group of SBI customers for "Employees of the bank always respond to request" is same.

H0: Mean number of preferences for different job category of SBI customers for "Employees of the bank always respond to request" is same.

METHOD OF DATA COLLECTION:

The study depends on primary data. Questionnaires have been used to collect the needed particulars. Questions related to the objectives have been framed after consulting experts. Based on the information gathered through a pilot study, the structure of the questionnaire has been restructured.

Selection of Sample Customers for Opinion Survey:

This study has attempted to elicit the effect of demographic variables on SBI Customers behavior of the Gujarat. We collected primary data from the customer's living in Gujarat during the period Dec 1, 2017 to Jan 31, 2018 through a Structured Questionnaire. At random, a nominal number of 100 customers were

identified though it forms an inadequate sample size. Finally their socio economic profiles were examined besides eliciting and analyzing their opinions on the SBI. Out of the 110 respondents selected, 10 respondents did not respond and the balances of 100 were included in the study. Out of the 100 respondents selected 55 were females and 45 males. They represent different socio-economic backgrounds. All the respondents selected under convenient sampling method were interviewed with a simple questionnaire during the period from Dec 1, 2017 to Jan 31, 2018. We classified customer's education into five groups. Education group details are given in table-1.

Table-1

Education Group Detail

Name of Education Group	Category	Comments			
Science& technology College grad	1	Customers of Gujarat doing graduate from any recognized Science or Engineering college			
Arts College grad	2	Customers of Gujarat doing graduate from any recognized Arts college			
Commerce College grad	3	Customers of Gujarat doing graduate from any recognized Commerce college			
Master's degree in Science& technology		Customers of Gujarat doing postgraduate from any recognized Science or Engineering department or center			
Master's degree in Arts & Commerce	5	Customers of Gujarat doing postgraduate from any recognized Arts & Commerce department or center			

Table-2

Frequency distribution of Education among the Customers

EDUCATION	Frequency	Percent
Master's degree in Arts & Commerce	3	3
Arts College grad	7	7
Commerce College grad	9	9
Science& technology College grad	37	37
Master's degree in Science& technology	44	44
Total	100	100.0

Source: Primary data

It is observed from Table-2 that 3% of Customers belong to the Master's degree in Arts & Commerce and 9% of Customers belong to Commerce College grad group. 7% customer belongs to Arts College grad& 37% are from Science& technology College grad Maximum percentage of 44% belongs to the Master's degree in Science& technology group.

✤ Job category:

Job category is the main source of income and it is also a major factor that Influences the perception of SBI customer. Job category is classified as government or public sector(1), private sector(2), business(3), Housewife or retired(4) and others(5).

* Analysis pertaining to find out the comparison of means number of preferences for "Appropriate functioning of ATM machine of SBI Bank". The objective is to find out the comparison of mean number of preferences of "**Appropriate functioning of ATM machine of SBI Bank**" among different demographic groups of respondent customers. For these respondents were asked to give points, based on 5 point Likert scale namely not at all satisfied, slightly satisfied, neutral, very satisfied, extremely satisfied and giving 1,2,3,4 & 5. Group statistics preference of "**Appropriate functioning of ATM machine of SBI Bank**" among education group of customers are given in following Table-3 & Table-4. These comparisons carried using one way ANOVA and Tukey post hoc test.

H0: Mean number of preferences for different education group of SBI customers for "Appropriate functioning of ATM machine of SBI Bank" is same.

		Sum of Squares	df	Mean Square	F	Sig.
	Between Groups	36.094	4	9.024	9.669	0
Appropriate functioning of ATM machine of SBI Bank	Within Groups	88.656	95	0.933		
	Total	124.75	99			
	Between Groups	46.815	4	11.704	8.238	0
There are no hidden charges taken by bank	Within Groups	134.975	95	1.421		
	Total	181.79	99			
	Between Groups	25.361	4	6.34	7.492	0
Bank does regular up gradation in its technology	Within Groups	80.399	95	0.846		
	Total	105.76	99			
	Between Groups	3.971	4	0.993	0.93	0.45
Employees of the bank always respond to request	Within Groups	101.419	95	1.068		
	Total	105.39	99			

ANOVA Table-3

We found F(4, 99) statistic (=9.669 at 0.05 level of significance) and the significant value 0. Hence above H0 rejected which indicates that the preference of **Appropriate functioning of ATM machine of SBI Bank** of customers differed significantly among the five group of education.

- The mean preference of Appropriate functioning of ATM machine of SBI Bank of customers of Science & technology College grad education group differed significantly from Arts College grad education groups at 5% significant level.
- The mean preference of Appropriate functioning of ATM machine of SBI Bank of customers of Arts College grad education group differed significantly from Science & technology College grad education groups at 5% significant level.
- The mean preference of Appropriate functioning of ATM machine of SBI Bank of customers of Commerce College grad education group differed significantly from Science & technology College IJCRTDRBC041 International Journal of Creative Research Thoughts (IJCRT) www.ijcrt.org 289

4.3265

grad education groups and Master's degree in Science& technology education group at 5% significant level.

> The mean preference of Appropriate functioning of ATM machine of SBI Bank of customers of Master's degree in Science& technology education group differed significantly from Commerce College grad education groups at 5% significant level.

	Multiple Co	omparisons by tul	key post hoc test				
N		(J) education	Mean	Std.	a.	95% Confidence Interval	
Dependent Variable	(1) education category	category	Jifference (I- J)	Error	Sig.	95% Cor Lower Bound -1.5847 -3.099 -1.5803 -3.036 0.3323 -2.2041 -0.6636 -2.1351 0.6026 -0.4195 -0.0476 -1.6021 -2.2787 -3.279 -4.4476 -4.3265 0.2656	Upper Bound
		2	95849*	0.22518	0	-1.5847	-0.3323
	Science & technology	3	-1.85079*	0.44884	0.001	-3.099	-0.6026
	College grad	4	0.34921	0.69385	0.987	-1.5803	2.2787
		5	-1.65079*	0.49811	0.011	-3.036	-0.2656
	Arts College grad	1	.95849*	0.22518	0	0.3323	1.5847
		3	-0.89231	0.47174	0.329	-2.2041	0.4195
		4	1.30769	0.70887	0.354	-0.6636	3.279
		5	-0.69231	0.51884	0.671	-2.1351	0.7505
		1	1.85079*	0.44884	0.001	0.6026	3.099
Appropriate functioning of	Commerce College	2	0.89231	0.47174	0.329	-0.4195	2.2041
ATM machine of SBI Bank	grad	4	2.2	0.80824	0.058	-0.0476	4.4476
		5	0.2	0.64803	0.998	-1.6021	2.0021
		1	-0.34921	0.69385	0.987	-2.2787	1.5803
	Master's degree in	2	-1.30769	0.70887	0.354	-3.279	0.6636
	Science& technology	3	-2.2	0.80824	0.058	-4.4476	0.0476
		5	-2	0.83661	0.127	-4.3265	0.3265
		1	1.65079*	0.49811	0.011	0.2656	3.036
	Master's degree in Arts	2	0.69231	0.51884	0.671	-0.7505	2.1351
	& Commerce	3	-0.2	0.64803	0.998	-2.0021	1.6021

Table-4

The mean preference of Appropriate functioning of ATM machine of SBI Bank of customers of \geq Master's degree in Arts & Commerce education group differed significantly from Science & technology College grad education groups at 5% significant level.

2

0.83661

0.127

-0.3265

4

Comparison for Preferences of SBI customers for "There are no hidden charges taken by bank" among education group.

In this section we analyzed for five education group customer's preference of "There are no hidden charges taken by bank". For this respondents were asked to give points, based on 5 point Likert scale namely Strongly Disagree, Disagree, Neither Agree nor Disagree, Agree, strongly Agree, giving 1,2,3,4 and 5.

Group statistics of preference of "There are no hidden charges taken by bank" among education group of customers are given in above Table-3 & Table-5. These comparisons carried using one way ANOVA and Tukey post hoc test.

H₀: Mean number of preferences for "**There are no hidden charges taken by bank**" is the same for education group.

We found F(4, 99) statistic (=8.238 at 0.05 level of significance) and the significant value 0. Hence above H0 rejected which indicates that the preference of **There are no hidden charges taken by bank** of customers differed significantly among the five group of education.

Multiple Comparisons by tukey post hoc test										
Den en deut Versie ble	(D) adverse from an to many	(J) education	Mean	Std.	S! ~	95% Cor Inte	nfidence rval			
Dependent variable	(1) education category	category	Difference (I-J)	Error	51g.	95% Co. Inte Lower Bound -1.921 -3.7115 -1.9522 -3.2806 0.3757 -2.6417 -0.8554 -2.2034 0.6313 -0.5956 -0.1733 -1.6236 -2.8093 -4.0092 -5.3733 -4.8706 -0.1377	Upper Bound			
		2	-1.14835*	0.27784	0.001	-1.921	-0.3757			
Dependent Variable There are no hidden charges taken by bank	Science& technology	3	-2.17143*	0.55381	0.002	-3.7115	-0.6313			
	College grad	4	0.42857	0.85612	0.987	-1.9522	2.8093			
		5	-1.57143	0.61461	0.087	-3.2806	0.1377			
		1	1.14835*	0.27784	0.001	0.3757	1.921			
	Arts College grad	3	-1.02308	0.58207	0.404	-2.6417	0.5956			
		4	1.57692	0.87467	0.378	-0.8554	4.0092			
		5	-0.42308	0.64019	0.964	-2.2034	1.3572			
	Commerce College grad	1	2.17143*	0.55381	0.002	0.6313	3.7115			
There are no hidden		2	1.02308	0.58207	0.404	-0.5956	2.6417			
charges taken by bank		4	2.6	0.99727	0.077	-0.1733	5.3733			
		5	0.6	0.7996	0.944	-1.6236	2.8236			
		1	-0.42857	0.85612	0.987	-2.8093	1.9522			
	Master's degree in	2	-1.57692	0.87467	0.378	-4.0092	0.8554			
	Science& technology	3	-2.6	0.99727	0.077	-5.3733	0.1733			
		5	-2	1.03227	0.305	-4.8706	0.8706			
		1	1.57143	0.61461	0.087	-0.1377	3.2806			
	Master's degree in Arts	2	0.42308	0.64019	0.964	-1.3572	2.2034			
	& Commerce	3	-0.6	0.7996	0.944	-2.8236	1.6236			
		4	2	1.03227	0.305	-0.8706	4.8706			

Table-5

The mean preference of There are no hidden charges taken by bank of customers of Science & technology College grad education group differed significantly from Arts College grad education groups and Commerce College grad education group at 5% significant level.

- The mean preference of There are no hidden charges taken by bank of customers of Arts College grad education group differed significantly from Science & technology College grad education groups at 5% significant level.
- The mean preference of There are no hidden charges taken by bank of customers of Commerce College grad education group differed significantly from Science & technology College grad education groups and Master's degree in Science& technology education group at 5% significant level.
- Analysis pertaining to find out the comparison of mean number of preferences for "Bank does regular up gradation in its technology".

The objective is to find out the comparison of mean number of preferences of "Bank does regular up gradation in its technology" among different demographic groups of respondent customers. For this respondents were asked to give points, based on 5 point Likert scale namely Strongly Disagree, Disagree, Neither Agree nor Disagree, Agree, Strongly Agree, giving 1,2,3,4 and5.Group statistics of preference of "Bank does regular up gradation in its technology" among education group of customers are given in above Table-3 and Table-6 as shown below. These comparisons carried using one-way ANOVA and Tukey post hoc test.

H0: Mean number of preferences for different education group of SBI customers for "**Bank does** regular up gradation in its technology" is same.

We found F(4, 99) statistic (=7.492 at 0.05 level of significance) and the significant value 0. Hence above H0 rejected which indicates that the preference of **Bank does regular up gradation in its technology** of customers differ significantly among the five group of education.

- The mean preference of Bank does regular up gradation in its technology of customers of Science & technology College grad education group differed significantly from Arts College grad education group, Commerce College grad education group and Master's degree in Arts & Commerce education groups at 5% significant level.
- The mean preference of Bank does regular up gradation in its technology of customers of Arts College grad group differed significantly from Science technology College grad education groups at 5% significant level.
- The mean preference of Bank does regular up gradation in its technology of customers of Commerce College grad education group differed significantly from Science& technology College grad education groups at 5% significant level.

Multiple Comparisons by tukey post hoc test										
Dependent Variable	(I) education category	(J) education	Mean	Std.	Sia	95% Co Inte	nfidence rval			
Dependent variable		category	Difference (I-J)	Error	51g.	Lower Bound	Upper Bound			
		2	71184*	0.21444	0.011	-1.3082	-0.1155			
	Science& technology	3	-1.23492*	0.42743	0.038	-2.4235	-0.0463			
	College grad	4	0.36508	0.66075	0.981	-1.4724	2.2025			
		5	-1.88492*	0.47435	0.001	-3.204	-0.5658			
		1	.71184*	0.21444	0.011	0.1155	1.3082			
	Arts College grad	3	-0.52308	0.44923	0.771	-1.7723	0.7262			
		4	1.07692	0.67506	0.504	-0.8003	2.9542			
		5	-1.17308	0.49409	0.131	-2.5471	0.2009			
		1	1.23492*	0.42743	0.038	0.0463	2.4235			
Bank does regular up		2	0.52308	0.44923	0.771	-0.7262	1.7723			
gradation in its technology	Commerce Conege grad	4	1.6	0.76969	0.238	-0.5404	3.7404			
		5	-0.65	0.61712	0.83	-2.3661	1.0661			
		1	-0.36508	0.66075	0.981	-2.2025	1.4724			
	Master's degree in	2	-1.07692	0.67506	0.504	-2.9542	0.8003			
	Science& technology	3	-1.6	0.76969	0.238	-3.7404	0.5404			
		5	-2.25000*	0.7967	0.045	-4.4655	-0.0345			
		1	1.88492*	0.47435	0.001	0.5658	3.204			
	Master's degree in Arts	2	1.17308	0.49409	0.131	-0.2009	2.5471			
	& Commerce	3	0.65	0.61712	0.83	-1.0661	2.3661			
		4	2.25000*	0.7967	0.045	0.0345	4.4655			

Table-6

- The mean preference of Bank does regular up gradation in its technology of customers of Master's degree in Science& technology education group differed significantly from Master's degree in Arts & Commerce education groups at 5% significant level.
- The mean preference of Bank does regular up gradation in its technology of customers of Master's degree in Arts & Commerce education group differed significantly from Master's degree in Science& technology College grad education groups at 5% significant level.
- ✤ Analysis pertaining to find out the comparison of means number of preferences for "Employees of the bank always respond to request".

The objective is to find out the comparison of mean number of preferences of "Employees of the bank always respond to request" among different demographic groups of respondent customers. For this respondents were asked to give points, based on 5 point Likert scale namely Not at All Happy, Not Very Happy, Neutral, Somewhat Happy, Very Happy, giving 1,2,3,4 and5. Group statistics of preference of "Employees of the bank always respond to request" among education group of customers are given in following Table-3. These comparisons carried using one-way ANOVA test.

H0: Mean number of preferences for different education group of SBI customers for "Employees of the bank always respond to request" is same.

We found F(4, 99) statistic (=0.93 at 0.05 level of significance) and the significant value 0.45. Hence above H0 accepted which indicates that the preferences of **Employees of the bank always respond to request** of customers does not differ significantly among the five group of education.

☆ Analysis pertaining to find out the comparison of means number of preferences for "Appropriate functioning of ATM machine of SBI Bank".

The objective is to find out the comparison of mean number of preferences of "Appropriate functioning of ATM machine of SBI Bank" among different demographic groups of respondent customers. For these respondents were asked to give points, based on 5 point Likert scale namely not at all satisfied, slightly satisfied, neutral, very satisfied, extremely satisfied and giving 1,2,3,4 and 5. Group statistics of preference of "Appropriate functioning of ATM machine of SBI Bank" among job category group of customers are given in following Table-7 & Table-8. These comparisons carried using one-way ANOVA and Tukey post hoc test.

H0: Mean number of preferences for different job category of SBI customers for "Appropriate functioning of ATM machine of SBI Bank" is same.

	ANOVA					
		Sum of Squares	df	Mean Square	F	Sig.
	Between Groups	77.914	4	19.479	39.509	0
Appropriate functioning of ATM machine of SBI Bank	Within Groups	46.836	95	0.493		
	Total	124.75	99			
	Between Groups	121.448	4	30.362	47.8	0
There are no hidden charges taken by bank	Sum of SquaresdfMean SquareF $e of SBI Bank$ Between Groups77.914419.47939.509 $Within Groups$ 46.836950.493-Total124.7599 $by bank$ Between Groups121.448430.36247.8Within Groups60.342950.635-Total181.7999					
	Total	Sum of Squares df Mean Squares F en Groups 77.914 4 19.479 39.5 n Groups 46.836 95 0.493 5 otal 124.75 99 5 5 en Groups 121.448 4 30.362 47. n Groups 60.342 95 0.635 5 otal 181.79 99 5 5				

ANOVE Table-7:

V	/ww.ijcrt.org © 2018	3 IJCRT Volu	me 6, Issue 1	Mar	ch 2018 ISS	SN: 232	0-288
		Between Groups	50.191	4	12.548	21.452	0
	Bank does regular up gradation in its technology	Within Groups	55.569	95	0.585		
		Total	105.76	99			
ſ		Between Groups	12.167	4	3.042	3.1	0.019
	Employees of the bank always respond to request	Within Groups	93.223	95	0.981		
		Total	105.39	99			

We found F(4, 99) statistic (=39.509 at 0.05 level of significance) and the significant value 0. Hence above H0 rejected which indicates that the preference of **Appropriate functioning of ATM machine of SBI Bank** of customers differ significantly among the five job category.

- The mean preference of customers for Appropriate functioning of ATM machine of SBI Bank of government or public sector job group differed significantly from private sector job group, Housewife or retired group and others groups at 5% significant level.
- The mean preference of Appropriate functioning of ATM machine of SBI Bank of customers of Private sector group differed significantly from Government or public sector group, Housewife or retired group and Others groups at 5% significant level.
- The mean preference of Appropriate functioning of ATM machine of SBI Bank of customers of Business group differed significantly from Housewife or retired group and Others groups at 5% significant level.
- The mean preference of Appropriate functioning of ATM machine of SBI Bank of customers of Housewife or retired group differed significantly from government or public sector group, Private sector group and Business groups at 5% significant level.
- The mean preference of Appropriate functioning of ATM machine of SBI Bank of customers of Others group differed significantly from Government or public sector group, Private sector group and Business groups at 5% significant level.

	Multiple Comparisons by tukey post hoc test											
Danandant Variabla	(1) ich actagory	(J) job	Mean	Std.	Sig	95% Confidence Interval						
Dependent Variable	(I) job category	category	Difference (I-J)	Error	Sig.	95% Confi Intervi Lower Bound .02 -1.2644 055 -1.6574 0 -2.7717 0 -3.3154 .02 0.0731 992 -1.1175 0 -2.2688 0 -2.7835 055 -0.0122 992 -0.8098 002 -2.3096 0 -2.8006 0 1.5401 0 0.7055	Upper Bound					
		2	66873*	0.21419	0.02	-1.2644	-0.0731					
	government or public sector	3	-0.82258	0.3002	0.055	-1.6574	0.0122					
		4	-2.15591*	0.22144	0	-2.7717	-1.5401					
		5	-2.53687*	0.27997	0	-3.3154	-1.7583					
	private sector	1	.66873*	0.21419	0.02	0.0731	1.2644					
		3	-0.15385	0.34654	0.992	-1.1175	0.8098					
Appropriate functioning of ATM		4	-1.48718*	0.28108	0	-2.2688	-0.7055					
machine of SBI Bank		5	-1.86813*	0.32917	0	-2.7835	-0.9528					
		1	0.82258	0.3002	0.055	-0.0122	1.6574					
	husingas	2	0.15385	0.34654	0.992	-0.8098	1.1175					
	business	4	-1.33333*	0.35107	0.002	-2.3096	-0.357					
		5	-1.71429*	0.39064	0	-2.8006	-0.628					
	Housewife or	1	2.15591*	0.22144	0	1.5401	2.7717					
	retired	2	1.48718*	0.28108	0	0.7055	2.2688					

Table-8

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		3	1.33333*	0.35107	0.002	0.357	2.3096
		5	-0.38095	0.33394	0.784	-1.3096	0.5477
		1	2.53687*	0.27997	0	1.7583	3.3154
	others	2	1.86813*	0.32917	0	0.9528	2.7835
		3	1.71429*	0.39064	0	0.628	2.8006
		4	0.38095	0.33394	0.784	-0.5477	1.3096

Analysis pertaining to find out the comparison of means number of preferences for "There are no hidden charges taken by bank".

The objective is to find out the comparison of mean number of preferences of **"There are no hidden charges taken by bank"** among different demographic groups of respondent customers. For this respondents were asked to give points, based on 5 point Likert scale namely strongly disagree, Disagree, Neither Agree nor Disagree, Agree, strongly Agree, giving 1,2,3,4 and5.Group statistics of preference of **"There are no hidden charges taken by bank"** among job category group of customers are given in above Table-7 and Table-9 below. These comparisons carried using one-way ANOVA and Tukey post hoc test.

H0: Mean number of preferences for different job category of SBI customers for "There are no hidden charges taken by bank" is same.

We found F(4, 99) statistic (=47.8 at 0.05 level of significance) and the significant value 0. Hence above H0 rejected which indicates that the preferences of **There are no hidden charges taken by bank** of customers differ significantly among the five job category.

Multiple Comparisons										
Tukey HSD										
		(I) job	Mean Difference	Std		95% Confide	ence Interval			
Dependent Variable	(I) job category	category	(I-J)	Error	Std. Error 95% Confidence I Lower Bound U B 0.24312 0.133 -1.2518 0. 0.34075 0.002 -2.254 -0 0.25135 0 -3.5054 -2 0.31778 0 -3.833 -2 0.24312 0.133 -0.1004 1. 0.35054 -2 0.31778 0 -3.833 0.24312 0.133 -0.1004 1. 0.39335 0.347 -1.8246 0. 0.31905 0 -3.118 -1 0.37363 0 -3.4126 -1 0.39335 0.347 -0.3631 1. 0.39849 0.003 -2.6082 -0 0.4434 0.003 -2.8759 -0 0.25135 0 2.1075 3. 0.31905 0 1.3435 3 0.39849 0.003 0.3918 2.	Upper Bound				
		Multiple Comparisonategory(J) job categoryMeanategory(J) job categoryMeanit or public3tor45sector410110sector45111200455112201220312222312512223125151515151631	-0.57568	0.24312	0.133	-1.2518	0.1004			
	Government or public	3	-1.30645*	0.34075	0.002	-2.254	-0.3589			
	sector	4	-2.80645*	0.25135	0	-3.5054	-2.1075			
		5	-2.94931*	0.31778	0	-3.833	-2.0656			
	Private sector	1	0.57568	0.24312	0.133	-0.1004	1.2518			
		3	-0.73077	0.39335	0.347	-1.8246	0.3631			
		4	-2.23077*	0.31905	0	-3.118	-1.3435			
There are no hidden charges		5	-2.37363*	0.37363	0	-3.4126	-1.3346			
taken by bank		1	1.30645*	0.34075	0.002	0.3589	2.254			
	D '	2	0.73077	0.39335	0.347	-0.3631	1.8246			
	Business	4	-1.50000*	0.39849	0.003	-2.6082	-0.3918			
		5	-1.64286*	0.4434	0.003	-2.8759	-0.4098			
		1	2.80645*	0.25135	0	2.1075	3.5054			
		2	2.23077*	0.31905	0	1.3435	3.118			
	Housewife or retired	3	1.50000*	0.39849	0.003	0.3918	2.6082			
		5	-0.14286	0.37904	0.996	-1.1969	0.9112			

Table-9

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		1	2.94931*	0.31778	0	2.0656	3.833
	Othern	2	2.37363*	0.37363	0	1.3346	3.4126
Others	Others	3	1.64286*	0.4434	0.003	0.4098	2.8759
		4	0.14286	0.37904	0.996	-0.9112	1.1969

- The mean preference of There are no hidden charges taken by bank of customers of Government or public sector job group differed significantly from Business group, Housewife or retired job group and Others job groups at 5% significant level.
- The mean preference of There are no hidden charges taken by bank of customers of Private sector education group differed significantly from Housewife or retired group and Others groups at 5% significant level.
- The mean preference of There are no hidden charges taken by bank of customers of Business group differed significantly from Government or public sector group, Housewife or retired group and Others groups at 5% significant level.
- The mean preference of There are no hidden charges taken by bank of customers of Housewife or retired education group differed significantly from Government or public sector group, Private sector group and Business groups at 5% significant level.
- The mean preference of There are no hidden charges taken by bank of customers of Others group differed significantly from Government or public sector group, Private sector group and Business groups at 5% significant level.
- Analysis pertaining to find out the comparison of mean number of preferences for "Bank does regular up gradation in its technology".

The objective is to find out the comparison of mean number of preferences of **"Bank does regular up gradation in its technology"** among different demographic groups of respondent customers. For this respondents were asked to give points, based on 5 point Likert scale namely strongly disagree, Disagree, Neither Agree nor Disagree, Agree, strongly Agree, giving 1,2,3,4 and 5. Group statistics of preference of **"Bank does regular up gradation in its technology"** among job category group of customers are given in following Table-7 & Table-10. These comparisons carried using one-way ANOVA and Tukey post hoc test.

H0: Mean number of preferences for different job category of SBI customers for "Bank does regular up gradation in its technology" is same.

We found F(4, 99) statistic (=21.452 at 0.05 level of significance) and the significant value 0. Hence above H0 rejected which indicates that the preferences of **Bank does regular up gradation in its technology** of customers differ significantly among the five job category.

- The mean preference of Bank does regular up gradation in its technology of customers of Government or public sector group differed significantly from Housewife or retired group and Others groups at 5% significant level.
- The mean preference of Bank does regular up gradation in its technology of customers of Private sector group differed significantly from Housewife or retired group and Others groups at 5% significant level.
- The mean preference of Bank does regular up gradation in its technology of customers of Business group differed significantly from Housewife or retired group and Others groups at 5% significant level.

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Table-10

Multiple Comparisons										
Tukey HSD										
Dependent Variable	(I) job category	(J) job category	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval				
						Lower Bound	Upper Bound			
	Government or public sector	2	-0.43424	0.2333	0.345	-1.083	0.2145			
		3	-0.24194	0.32699	0.947	-1.1513	0.6674			
		4	-1.74194*	0.2412	0	-2.4127	-1.0712			
		5	-2.02765*	0.30495	0	-2.8757	-1.1796			
	Private sector	1	0.43424	0.2333	0.345	-0.2145	1.083			
		3	0.19231	0.37747	0.986	-0.8574	1.242			
		4	-1.30769*	0.30617	0	-2.1591	-0.4563			
		5	-1.59341*	0.35855	0	-2.5905	-0.5963			
	Business	1	0.24194	0.32699	0.947	-0.6674	1.1513			
Bank does regular up gradation in		2	-0.19231	0.37747	0.986	-1.242	0.8574			
its technology		4	-1.50000*	0.38241	0.002	-2.5634	-0.4366			
		5	-1.78571*	0.4255	0.001	-2.969	-0.6025			
	Housewife or retired	1	1.74194*	0.2412	0	1.0712	2.4127			
		2	1.30769*	0.30617	0	0.4563	2.1591			
		3	1.50000^{*}	0.38241	0.002	0.4366	2.5634			
		5	-0.28571	0.36374	0.934	-1.2972	0.7258			
	Others	1	2.02765*	0.30495	0	1.1796	2.8757			
		2	1.59341*	0.35855	0	0.5963	2.5905			
		3	1.78571*	0.4255	0.001	0.6025	2.969			
		4	0.28571	0.36374	0.934	-0.7258	1.2972			

The mean preference of Bank does regular up gradation in its technology of customers of Housewife or retired group differed significantly from Government or public sector group, Private sector group and Business groups at 5% significant level.

- The mean preference of Bank does regular up gradation in its technology of customers of Others group differed significantly from Government or public sector group, Private sector group and Business groups at 5% significant level.
- Analysis pertaining to find out the comparison of means number of preferences for "Employees of the bank always respond to request".

The objective is to find out the comparison of mean number of preferences of "**Employees of the bank always respond to request**" among different demographic groups of respondent customers. For this respondents were asked to give points, based on 5 point Likert scale namely Strongly Disagree, Disagree, Undecided, Agree, strongly Agree, giving 1,2,3,4 and5.Group statistics of preference of "**Employees of the bank always respond to request**" among job category group of customers are given in above Table-7 & Table-11 below. These comparisons carried using one-way ANOVA and Tukey post hoc test.

H0: Mean number of preferences for different job category of SBI customers for "**Employees of the bank always respond to request**" is same.

We found F(4, 99) statistic (=3.1 at 0.05 level of significance) and the significant value 0.019. Hence above H0 rejected which indicates that the preferences of **Employees of the bank always respond to request** of customers differ significantly among the five job category.

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Multiple Comparisons									
Tukey HSD									
Dependent Variable	(I) job category	(J) job category	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval			
						Lower Bound	Upper Bound		
Employees of the bank always respond to request	Government or public sector	2	-0.11166	0.30218	0.996	-0.952	0.7287		
		3	0.41398	0.42353	0.865	-0.7638	1.5918		
		4	-0.25269	0.31241	0.927	-1.1215	0.6161		
		5	-1.27650 [*]	0.39498	0.014	-2.3749	-0.1781		
	Private sector	1	0.11166	0.30218	0.996	-0.7287	0.952		
		3	0.52564	0.48891	0.819	-0.834	1.8852		
		4	-0.14103	0.39656	0.997	-1.2438	0.9618		
		5	-1.16484	0.4644	0.097	-2.4563	0.1266		
	Business	1	-0.41398	0.42353	0.865	-1.5918	0.7638		
		2	-0.52564	0.48891	0.819	-1.8852	0.834		
		4	-0.66667	0.4953	0.663	-2.044	0.7107		
		5	-1.69048 [*]	0.55112	0.023	-3.2231	-0.1579		
	Housewife or retired	1	0.25269	0.31241	0.927	-0.6161	1.1215		
		2	0.14103	0.39656	0.997	-0.9618	1.2438		
		3	0.66667	0.4953	0.663	-0.7107	2.044		
		5	-1.02381	0.47113	0.199	-2.3339	0.2863		
	Others	1	1.27650*	0.39498	0.014	0.1781	2.3749		
		2	1.16484	0.4644	0.097	-0.1266	2.4563		
		3	1.69048*	0.55112	0.023	0.1579	3.2231		
		4	1.02381	0.47113	0.199	-0.2863	2.3339		

The mean preference of Employees of the bank always respond to request of customers of Government or public sector group differed significantly from Others groups at 5% significant level.

The mean preference of Bank does regular up gradation in its technology of customers of Others group differed significantly from Government or public sector group and Business groups at 5% significant level.

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