TECHNO ENGINEERING COLLEGE-BANIPUR

Report On

"People use internet or library for any research work"

FROM,

COMPUTER SCIENCE & ENGINEERING DEPARTMENT

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GROUP NO. -

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1. Introduction

The era that we are living in is the digital era, which means that we can get everything in digital mode or through digital mode(aka online) like groceries, clothes, e-books, and any kind of information. Day by day innovation and advancement is also being done in the field of technology to make the availability of information and reading materials to the people.

However, if we go 15 years back then at that time it was almost impossible to avail of any kind of information or e-books through online mode. And most people used to rely on books, magazines, and newspapers they purchase or on the library to know about anything.

Even though everybody in today's world has mobile devices and access to the internet but it can not be said with surety that almost everyone relies on online mode to access any information. Physical scriptures have been a part of human life for a very long time, and this might be the reason for most people to still believe in books for any information. Also, different factors like lack of digital knowledge motivate people to use books than depend on online mode.

These questions grabbed our interest, so we went on the search to see if "people use the internet or library for any research work." In this report, we have attempted to describe in detail our research work on the aforementioned topic; after reading it, we will be able to ascertain whether people seek information from the internet or the library even in this era.

2. Methodology

Our research work is mainly depend on data and we all know that data is the crucial part for any research work. Therefore, it is very important to collect proper data .

To collect accurate and proper data we have followed different steps like planning and data collection.

2.1 Planning

The first stage in collecting data is to develop a solid plan, because if you don't prepare well, the data you collect may not be acceptable for your purpose, resulting in a significant waste of time and money.

2.1.1 Source of data

There are two sorts of data sources: primary data and secondary data. We choose to acquire primary data in order to conduct accurate research and analysis.

2.1.2 Type of enquiry

The type of inquiry refers to how we will gather data, which is divided into two categories: Sample Survey and Census. In order to obtain more reliable data, we used Sample Survey as the form of inquiry in our research.

2.1.3 Study's Participants

In order to conduct a thorough study in our research, we attempted to include 50% data from each gender category. Then, within each category, a new age group category is picked.

2.2 Data Collection

Data can be collected in a variety of ways, including direct personal observation, indirect oral investigation, mailing postal surveys, and sending schedules through investigators.

We chose sending schedules through investigators as the technique of data collection for our research. To complete this task, we formed a ten-member team that collects data either orally or via teleconference.

3. Data Analysis and Results

We tabulated data for each property in different frequency tables, which are accessible in appendix-4, for analysis after collecting the data (see appendix-3 for reference).

3.1 Insight from frequency table

After evaluating the various frequency tables, we obtain the following information.

3.1.1 Table-2: Statement Agreement

i. About 78% people said that they use internet over library for any research work.

ii. And rest 22% found choose library.

3.1.2 Table-5: Accessibility of internet

i. More than 18% people said that they don't have access to internet

3.1.3 Table-7: Help from internet

i. In this digital era, only 75% people were sure that they get information from the internet.

ii. While other 25% people rated it fair and below.

3.1.4 Table-4: Easy in use internet

i. More than 23% find it difficult to use internet shows that there is lack of digital literacy among them, and proper program and schemes should be developed in order to educate them about the technology, as it is very important in this technological world.

3.1.5 Table-8: Accessibility of library

i. The percentage of people who believed that they they have access to library is 60%.

ii. And 40% people clearly denied that they have access to library.

3.1.6 Table-6: Help from library

i.   More than 73% people agreed that they are able to get all kind of information through library.

ii. While other 26% people rated it fair and below.

3.1.7 Table-9: Easy in use library

i.   Around 78% people find using library very easy and useful.

ii. While rest of the 22% people denied it, which shows that they have adopted the modern way of studying in their life.

3.2 Analysis on hours a week people spend on library or

internet After analysis using SPSS software we find that-

i.   On an average people spend 6.5 hours a week on library and 15 hours a week on internet.

3.3 Cross table and Chi-square test

Cross tables, also known as bi-variate tables, are used to examine the relationship between two separate attributes in a table.

The Chi-square test, on the other hand, is a hypothesis test that is used to determine whether two characteristics are interrelated (or dependent) on each other.

After doing analysis on each cross table present in appendix-5, we obtained the following result.

i.   Only Gender vs Accessibility of library and Gender vs Easy in use of Library cross attributes were found to be dependent on each other.

4. Conclusion

In this era of technology, where we can find anything just at the tip of our hand, it is irrelevant to say if people of different age group either male or female use internet or library for any research work, and so do our research shows that around 78% of people agreed on the fact that they prefer internet for any research than the library. But more than 98% people who use library were sure that they get help from the library for any research work which is more than the people who use internet which is around 86%. This difference in getting help from the internet shows that there is

still lack of proper and structured availability of data or information on the internet due to which people are unable to get everything properly.

During our study we considered many factors in order to determine if they are interrelated to each other or they have any affect on the mode of research, but almost all the factors shows that they don't depend on each other and don't have any kind of affect in the field of research, which we have verified using hypothesis test named as "Chi Square Test". But variables like gender and accessibility of library, and gender and easy in use of library, shows relation between them, by which we can conclude accessibility and easy in use of library may be different for male and female.

5. Reference

5.1 Books

1.   N. G. Das, "Statistical Methods," Tata McGraw-Hill Publishing Company Ltd., New Delhi, 2008.
2.   Agresti, Franklin, Statistics: The Art and Science of Learning from Data, Instructor's Edition, Pearson/Prentice Hall
3. Wildemuth, B. M. (2009). Frequencies, cross-tabulation, and the chi-square statistic. Applications of social research methods to questions in information and library science, 348-360.

5.2 Journals

1.   Trafimow, D., & MacDonald, J. A. (2017). Performing inferential statistics prior to data collection. Educational and Psychological Measurement, 77(2), 204-219.

2.   Bilsborrow, R. E., Hugo, G., & Oberai, A. S. (1997). International migration statistics: Guidelines for improving data collection systems. International Labour Organization.

3.   Scheaffer, R. L., Mulekar, M. S., & McClave, J. T. (2010). Probability and statistics for engineers. Cengage Learning.
4.   Brown, E. N., & Kass, R. E. (2009). What is statistics?. The American Statistician, 63(2), 105-110.

6. DataSheet

" PEOPLE USE LIBRARY OR INTERNET FOR ANY RESEARCH "

SAMPLE NO.	GENDER	AGE GROUP	DO YOU USE INTERNET MORE THAN LIBRARY FOR ANY RESEARCH WORK?	HOW MANY HOURS A WEEK DO YOU RESEARCH USING LIBRARY?	HOW MANY HOURS A WEEK DO YOU RESEARCH USING INTERNET?	INTERNET @ ACCESSIBILITY	INTERNET @ EASY IN USE	INTERNET @ AVAILABILITY OF HELP	LIBRARY @ ACCESSIBILITY	LIBRARY @ EASY IN USE	LIBRARY @ AVAILABILITY OF HELP
1.	1	1	1	1	10	5	5	5	5	4	4
2.	1	1	1	21	35	5	5	5	5	5	4
3.	1	1	1	5	33	5	5	5	5	5	5
4.	1	1	1	21	36	5	5	5	5	4	4
5.	1	1	1	6	19	5	4	4	3	3	3
6.	1	1	1	4	18	4	4	4	4	2	4
7.	1	1	1	3	31	5	5	5	4	4	4
8.	1	1	1	6	17	5	4	4	4	4	3
9.	1	1	1	3	8	5	5	4	4	4	5
10.	1	1	1	19	35	5	5	5	3	5	3
11.	1	2	1	11	33	5	5	5	5	5	5
12	1	2	1	6	13	5	4	4	3	4	4
13.	1	2	1	2	37	3	4	4	5	5	5
14.	1	2	1	2	40	4	4	4	5	5	5
15.	1	2	2	7	11	4	4	4	5	5	5
16.	1	2	1	4	15	5	4	5	4	4	4
17.	1	2	1	4	8	5	5	5	3	4	4
18.	1	2	1	3	28	5	5	5	3	3	3
19.	1	2	1	9	2	2	2	2	5	5	5
20.	1	2	1	7	4	4	3	3	3	5	4
21.	1	3	1	8	35	5	5	5	3	4	4
22.	1	3	2	13	2	2	3	3	5	5	4
23.	1	3	2	17	0	2	1	3	5	5	4
24.	1	3	2	9	0	1	1	1	4	5	4
25.	1	3	1	3	10	4	4	4	4	5	4
26.	1	3	1	5	20	4	4	4	3	4	3
27.	1	3	2	31	5	2	3	3	5	5	5
28.	1	3	1	8	43	4	5	4	5	5	5
29.	1	3	1	8	23	4	4	4	5	5	5
30.	1	3	1	3	10	4	4	4	5	5	4
31.	2	1	1	5	15	4	4	5	3	4	4
32.	2	1	2	9	2	2	2	2	3	3	3
33.	2	1	1	2	31	5	5	5	2	2	3
34.	2	1	1	7	13	5	5	5	4	5	5
35.	2	1	1	8	4	3	3	3	4	4	5
36.	2	1	2	28	11	5	4	4	5	5	5
37.	2	1	1	3	19	4	4	4	3	3	3
38.	2	1	1	19	12	5	5	5	4	4	4
39.	2	1	1	2	21	5	5	5	3	3	3
40.	2	1	1	3	16	4	5	5	2	4	3
41.	2	2	1	10	22	5	5	5	4	4	4
42.	2	2	1	2	21	5	4	4	3	1	1
43.	2	2	2	9	0	1	1	1	4	4	5
44.	2	2	2	18	14	5	5	5	5	4	4
45.	2	2	1	0	15	1	1	1	4	5	4
46.	2	2	1	1	9	1	4	2	4	4	4
47.	2	2	1	5	23	5	5	5	2	4	3
48.	2	2	2	8	7	4	4	4	5	4	5
49.	2	2	1	6	17	5	4	4	4	4	3
50.	2	2	1	9	18	5	5	5	4	4	4
51.	2	3	1	6	7	5	4	5	3	3	3
52.	2	3	1	1	2	5	4	4	3	4	3
53.	2	3	1	20	20	4	4	4	3	4	4
54.	2	3	2	4	0	1	1	1	3	3	4
55.	2	3	1	4	8	4	4	3	2	2	4
56.	2	3	1	12	35	3	3	3	3	4	4
57.	2	3	2	12	35	2	2	2	4	4	4
58.	2	3	2	30	35	4	4	4	4	5	5
59.	2	3	1	42	14	5	4	4	3	3	4
60.	2	3	1	30	7	5	5	5	3	3	3

❖ **Notations Used –**

- **For Gender**

    1 - Male
    2 - Female

- **For Age Group**

    1- Below 35 years
    2- Between 35-45 years
    3- Above 45 years

- **Statement Agreement**
1 - Agree
2 - Disagree

Link for

Dataset:- https://docs.google.com/spreadsheets/d/15kz3Tpx9NWHaFlORC5yVk5r5lkHSenRhveufZFaPBHo/edit?usp=sharing

7. FREQUENCY TABLE

"PEOPLE USE LIBRARY OR INTERNET FOR ANY RESEARCH"
FREQUENCY TABLE

Table-1: GENDER

X	Y	%age
MALE	30	50%
FEMALE	30	50%

Table-2: STATEMENT AGREEMENT

X	Y	%age
AGREE	47	78.33%
DISAGREE	13	21.66%

Table-3: AGE GROUP

X	Y	%age
BELOW 35 YEARS	20	33.33%
BETWEEN 35-45 YEARS	20	33.33%
ABOVE 45 YEARS	20	33.33%

Table-4: EASY IN USE OF INTERNET

X	Y	%age
VERY POOR	5	8.33%
POOR	4	6.66%
FAIR	5	8.33%
GOOD	24	40%
EXCELLENT	22	36.33%

Table-5: ACCESSIBILITY OF INTERNET

X	Y	%age
VERY POOR	5	8.33%
POOR	6	10%
FAIR	3	5%
GOOD	16	26.66%
EXCELLENT	30	50%

Table-6: HELP FROM LIBRARY

X	Y	%age
VERY POOR	1	1.66%
POOR	0	0%
FAIR	15	25%
GOOD	28	46.66%
EXCELLENT	16	26.66%

Table-7: HELP FROM INTERNET

X	Y	%age
VERY POOR	4	6.66%
POOR	4	6.66%
FAIR	7	11.66%
GOOD	22	36.66%
EXCELLENT	23	38.33%

Table-8: ACCESSIBILITY OF LIBRARY

X	Y	%age
VERY POOR	0	0%
POOR	4	6.66%
FAIR	20	33.33%
GOOD	18	30%
EXCELLENT	18	30%

Table-9: EASY IN USE OF LIBRARY

X	Y	%age
VERY POOR	1	1.66%
POOR	3	5%
FAIR	9	15%
GOOD	26	43.33%
EXCELLENT	21	35%

HOW MANY HOURS A WEEK DO YOU RESEARCH USING LIBRARY?

Mean	9.4
Standard Error	1.142452511
Median	6.5
Mode	3
Standard Deviation	8.849399099
Sample Variance	78.31186441
Kurtosis	2.831689166
Skewness	1.721339876
Range	42
Minimum	0
Maximum	42
Sum	564
Count	60

HOW MANY HOURS A WEEK DO YOU RESEARCH USING INTERNET?

Mean	17.23333333
Standard Error	1.553266408
Median	15
Mode	35
Standard Deviation	12.03154986
Sample Variance	144.7581921
Kurtosis	-0.90204072
Skewness	0.429028938
Range	43
Minimum	0
Maximum	43
Sum	1034
Count	60

8. Cross Table

" PEOPLE USE LIBRARY OR INTERNET FOR ANY RESEARCH"

CROSS TABLE

GENDER VS STATEMENT AGREEMENT

GENDER — Statement Agreement

	YES	NO	TOTAL
MALE	25	5	30
FEMALE	22	8	30
TOTAL	47	13	60

AGE VS STATEMENT AGREEMENT

AGE GROUP — Statement Agreement

	YES	NO	TOTAL
BELOW 35 YEARS	18	2	20
BETWEEN 35-45 YEARS	16	4	20
ABOVE 45 YEARS	13	7	20
TOTAL	47	13	60

GENDER VS ACCESSIBILITY OF INTERNET

ACCESSIBILITY OF INTERNET

GENDER

	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
MALE	1	4	1	9	15	30
FEMALE	4	2	2	7	15	30
TOTAL	5	6	3	16	30	60

AGE VS ACCESSIBILTY OF INTERNET

ACCESSIBILTY OF INTERNET

AGE GROUP

	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
BELOW 35 YEARS	0	1	1	4	14	20
BETWEEN 35-45 YEARS	3	1	1	4	11	20
ABOVE 45 YEARS	2	4	1	8	5	20
TOTAL	5	6	3	16	30	60

GENDER VS EASY IN USE OF INTERNET

EASY IN USE

GENDER

	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
MALE	2	1	3	12	12	30
FEMALE	3	3	2	12	10	30
TOTAL	5	4	5	24	22	60

AGE VS EASY IN USE OF INTERNET

EASY IN USE

		VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
AGE GROUP	BELOW 35 YEARS	0	1	1	6	12	20
	BETWEEN 35-45 YEARS	2	1	1	9	7	20
	ABOVE 45 YEARS	3	2	3	9	3	20
	TOTAL	5	4	5	24	22	60

GENDER VS HELP FROM INTERNET

AVAILABILITY OF HELP

		VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
GENDER	MALE	1	1	4	13	11	30
	FEMALE	3	3	3	9	12	30
	TOTAL	4	4	7	22	23	60

AGE VS HELP FROM INTERNET

AVAILABILITY OF HELP

		VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
AGE GROUP	BELOW 35 YEARS	0	1	1	6	12	20
	BETWEEN 35-45 YEARS	2	2	1	7	8	20
	ABOVE 45 YEARS	2	1	5	9	3	20
	TOTAL	4	4	7	22	23	60

GENDER VS ACCESSIBILITY OF LIBRARY

ACCESSIBILTY OF LIBRARY

		VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
GENDER	MALE	0	0	8	7	15	30
	FEMALE	0	4	12	11	3	30
	TOTAL		4	20	18	18	60

AGE VS ACCESSIBILITY OF LIBRARY

ACCESSIBILTY OF LIBRARY

	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
AGE GROUP — BELOW 35 YEARS	0	2	6	7	5	20
BETWEEN 35-45 YEARS	0	1	5	7	7	20
ABOVE 45 YEARS	0	1	9	4	6	20
TOTAL	0	4	20	18	18	60

GENDER VS EASY IN USE OF LIBRARY

EASY IN USE

	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
GENDER — MALE	0	1	2	10	17	30
FEMALE	1	2	7	16	4	30
TOTAL	1	3	9	26	21	60

AGE VS EASY IN USE OF LIBRARY

EASY IN USE

	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
AGE GROUP — BELOW 35 YEARS	0	2	4	9	5	20
BETWEEN 35-45 YEARS	1	0	1	11	7	20
ABOVE 45 YEARS	0	1	4	6	9	20
TOTAL	1	3	9	26	21	60

(GENDER AND AGE) VS HELP FROM LIBRARY

HELP FROM LIBRARY

	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
GENDER — MALE	0	0	5	15	10	30
FEMALE	1	0	10	13	6	30
TOTAL	1	0	15	28	16	60

	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	TOTAL
AGE GROUP — BELOW 35 YEARS	0	0	8	7	5	20
BETWEEN 35-45 YEARS	1	0	3	9	7	20

ABOVE 45 YEARS	0	0	4	12	4	20
TOTAL	1	0	15	28	16	60

GENDER VS NO OF HOURS RESEARCHED USING INTERNET

HOURS

GENDER

	0-20 HOURS	20-ABOVE HOURS	TOTAL
MALE	17	13	30
FEMALE	21	9	30
TOTAL	38	22	60

AGE VS NO OF HOURS RESEARCHED USING INTERNET

AGE GROUP

NO OF HOURS

	BELOW 35 YRS	BETWEEN 35-45 YRS	ABOVE 45 YRS	TOTAL
0-20 HOURS	13	13	12	38
20 – ABOVE HOURS	7	7	8	22
TOTAL	20	20	20	60

GENDER VS NO OF HOURS RESEARCHED USING LIBRARY

HOURS

GENDER

	0-20 HOURS	20-ABOVE HOURS	TOTAL
MALE	27	3	30
FEMALE	25	5	30
TOTAL	52	8	60

AGE VS NO OF HOURS RESEARCHED USING LIBRARY

HOURS

AGE GROUP

	0-20 HOURS	20-ABOVE HOURS	TOTAL
BELOW 35 YEARS	17	3	20
BETWEEN 35-45 YRS	20	0	20
ABOVE 45 YRS	15	5	20
TOTAL	52	8	60

9. Graphs

Table-1
Gender

Gender (1 ="Male" , 2="Female")

Table-2
Age Group

Age Group
- 1
- 2
- 3

Table-3
Count For No. of Internet and Library Using People

100%

1 → 47

2 → 13

27.7%

Table-4
Accessibility of Internet

5 (8.33%)
6 (10%)
16 (26.67%)
30 (50%)

Ratings
- 5
- 4
- 2
- 1
- 3

Table-5
Easy in Use of Internet

5 (8.3...)
5 (8.33%)
24 (40%)
22 (36.67%)

Ratings
- 4
- 5
- 1
- 3
- 2

Table-6
Help From Internet

4 (6.67%)
7 (11.6...)
23 (38.33%)
22 (36.6...)

Ratings
- 5
- 4
- 3
- 1
- 2

Table-7
Accessibility of library

4 (6.67%)
18 (30%)
20 (33.33%)
18 (30%)

Ratings
- 3
- 4
- 5
- 2

Table -8
Easy in Use of Library

3 (5%)
9 (15%)
26 (43.33%)
21 (35%)

Column11
- 4
- 5
- 3
- 2
- 1

Table -9
Help From Internet

1 (1.67%)
15 (25%)
28 (46.67%)
16 (26.67%)

Column12
- 4
- 5
- 3
- 1

Bar Chart — Statement_Agreement by Gender

Bar Chart — Statement_Agreement by Age_Group

Bar Chart — Accessibility@Internet by Gender

Bar Chart — Accessibility@Internet by Age_Group

Bar Chart — Help@Internet by Gender

Bar Chart — Help@Internet by Age_Group