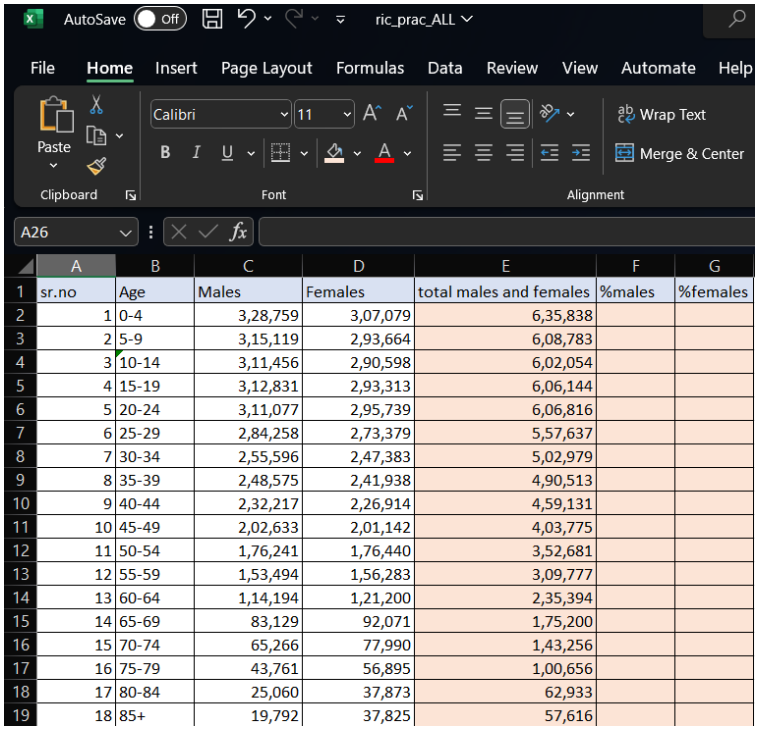
Practical: 03

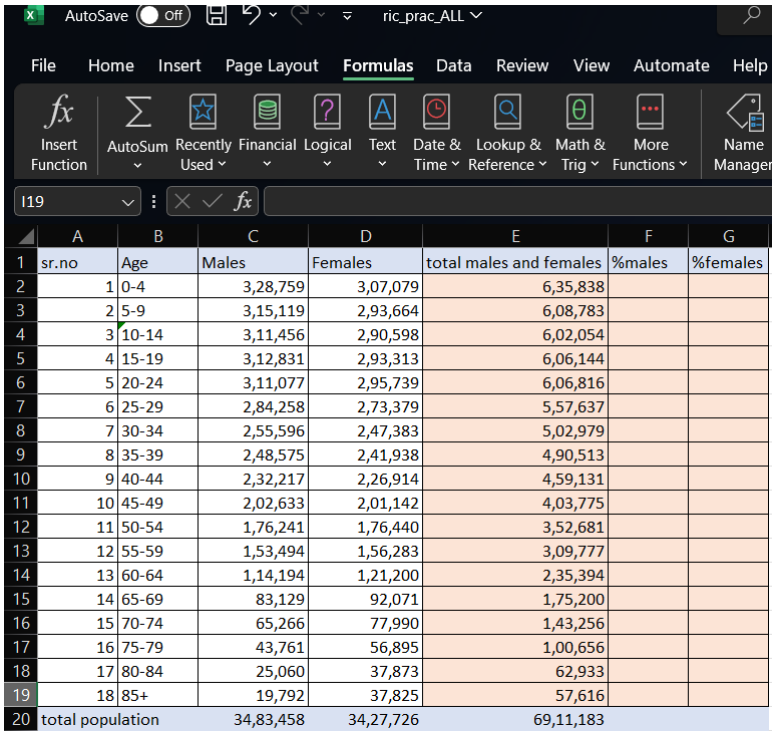
➢ Perform analysis of given secondary data.

Determine your research question - Knowing exactly what you are looking for.
Locating data - Knowing what is out there and whether you can gain access to it. Aquick Internet search, possibly with the help of a librarian, will reveal a wealth of options.
Evaluating relevance of the data - Considering things like the data's original purpose, when it was collected, population, sampling strategy/sample, data collection protocols, operationalization of concepts, questions asked, and form/shape of the data.
Assessing credibility of the data - Establishing the credentials of the original researchers, searching for full explication of methods including any problems encountered, determining how consistent the data is with data from other sources, anddiscovering whether the data has been used in any credible published research.
Analysis - This will generally involve a range of statistical processes.
Example: Analyze the given Population Census Data for Planning and Decision Making byusing the size and composition of populations.



sr.no	Age	Males	Females	total males and females	%males	%females
1	0-4	3,28,759	3,07,079	6,35,838		
2	5-9	3,15,119	2,93,664	6,08,783		
3	10-14	3,11,456	2,90,598	6,02,054		
4	15-19	3,12,831	2,93,313	6,06,144		
5	20-24	3,11,077	2,95,739	6,06,816		
6	25-29	2,84,258	2,73,379	5,57,637		
7	30-34	2,55,596	2,47,383	5,02,979		
8	35-39	2,48,575	2,41,938	4,90,513		
9	40-44	2,32,217	2,26,914	4,59,131		
10	45-49	2,02,633	2,01,142	4,03,775		
11	50-54	1,76,241	1,76,440	3,52,681		
12	55-59	1,53,494	1,56,283	3,09,777		
13	60-64	1,14,194	1,21,200	2,35,394		
14	65-69	83,129	92,071	1,75,200		
15	70-74	65,266	77,990	1,43,256		
16	75-79	43,761	56,895	1,00,656		
17	80-84	25,060	37,873	62,933		
18	85+	19,792	37,825	57,616		

Click on cell **A20** and label it as "total population".
Click on **C20** and click on *AutoSum* > a range will be selected *automatically* > clickenter. Similarly follow this for cell **D20** and **E20**.



sr.no	Age	Males	Females	total males and females	%males	%females
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12	55-59	1,53,494	1,56,283	3,09,777		
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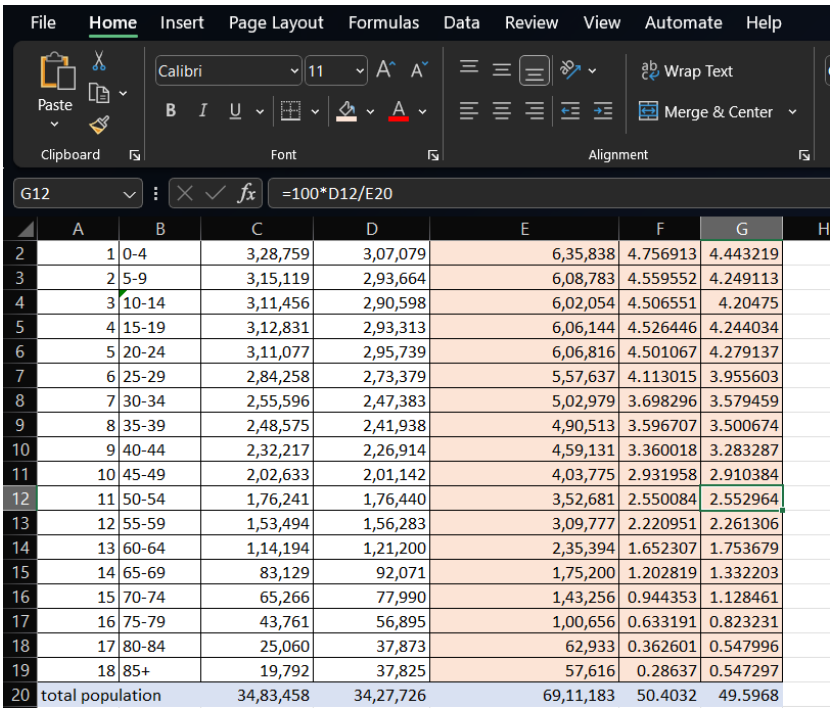
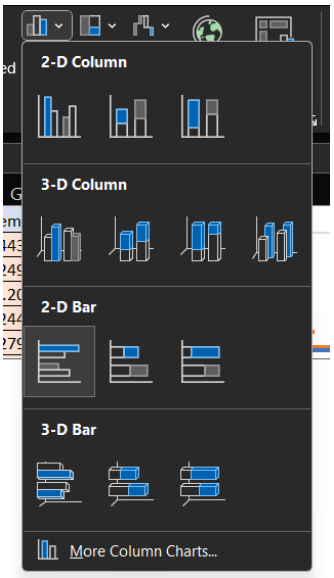
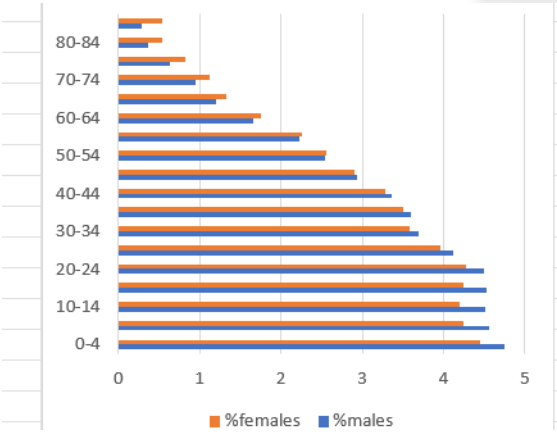
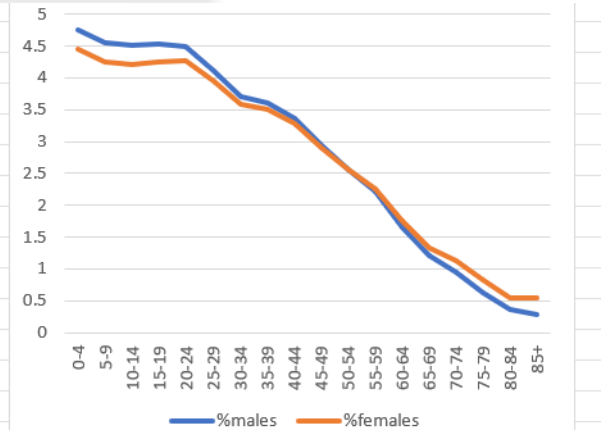
14	65-69	83,129	92,071	1,75,200		
15	70-74	65,266	77,990	1,43,256		
16	75-79	43,761	56,895	1,00,656		
17	80-84	25,060	37,873	62,933		
18	85+	19,792	37,825	57,616		
20	total population	34,83,458	34,27,726	69,11,183		

To calculate percent of males in cell F2, enter formula=100*C2/E20. And copy theformula in cell F2 down to cell F19.
Similarly, to calculate the percent of females in cell G2, enter the formula =100*D2/E20.Copy the formula in cell G2 down to cell G19.



	A	B	C	D	E	F	G
2	1	0-4	3,28,759	3,07,079	6,35,838	4.756913	4.443219
3	2	5-9	3,15,119	2,93,664	6,08,783	4.559552	4.249113
4	3	10-14	3,11,456	2,90,598	6,02,054	4.506551	4.20475
5	4	15-19	3,12,831	2,93,313	6,06,144	4.526446	4.244034
6	5	20-24	3,11,077	2,95,739	6,06,816	4.501067	4.279137
7	6	25-29	2,84,258	2,73,379	5,57,637	4.113015	3.955603
8	7	30-34	2,55,596	2,47,383	5,02,979	3.698296	3.579459
9	8	35-39	2,48,575	2,41,938	4,90,513	3.596707	3.500674
10	9	40-44	2,32,217	2,26,914	4,59,131	3.360018	3.283287
11	10	45-49	2,02,633	2,01,142	4,03,775	2.931958	2.910384
12	11	50-54	1,76,241	1,76,440	3,52,681	2.550084	2.552964
13	12	55-59	1,53,494	1,56,283	3,09,777	2.220951	2.261306
14	13	60-64	1,14,194	1,21,200	2,35,394	1.652307	1.753679
15	14	65-69	83,129	92,071	1,75,200	1.202819	1.332203
16	15	70-74	65,266	77,990	1,43,256	0.944353	1.128461
17	16	75-79	43,761	56,895	1,00,656	0.633191	0.823231
18	17	80-84	25,060	37,873	62,933	0.362601	0.547996
19	18	85+	19,792	37,825	57,616	0.28637	0.547297
20	total population		34,83,458	34,27,726	69,11,183	50.4032	49.5968

We need to show a chart with two series of data (% male and % female) and the age labels incolumn A as the Category X-axis labels. Highlight the range A2:A19, hold down the CTRL key and highlight the range E2:F19 Under inset tab, under horizontal bar charts select clustered bar chart and under line or area chart select line chart.

Output: