ASSIGNMENT

[1] Which are the top-5 states in terms of Revenue offered in the Month of April? How much revenue was collected from each of these states (6 points)
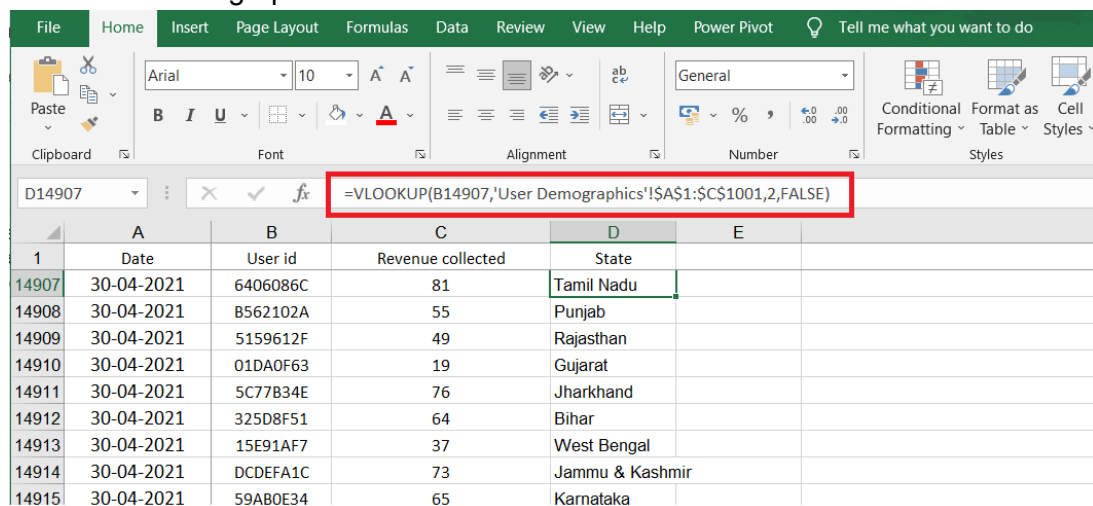**Ans**
Top 5 states in terms of Revenue offered are:

State Name	T.R
Karnataka	89345
Chattisgarh	71655
West Bengal	68138
Tamil Nadu	64190
Uttarakhand	58555

Step wise Solution
1. Append one column in 'Daily User-Vise Revenue Data sheet' and name it "States"
2. The column will contain the name of the user's state.
3. To do so we will use the VLOOKUP function to fetch the column['State(entered by user)'] from 'User Demographics'.
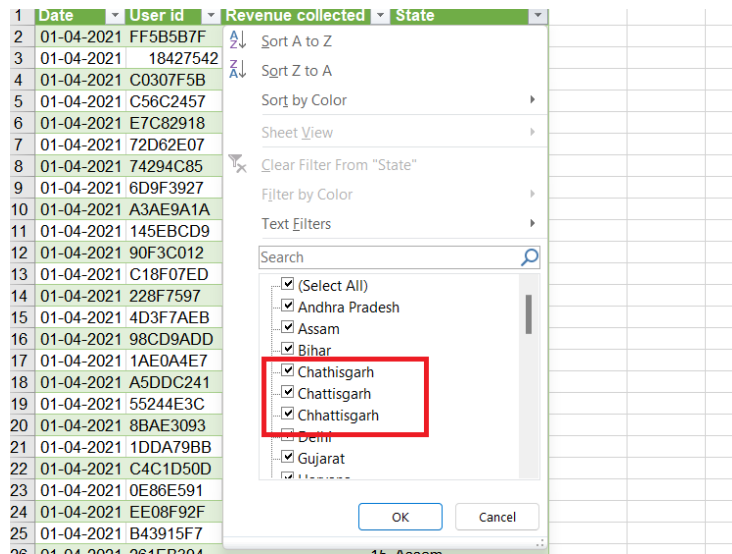

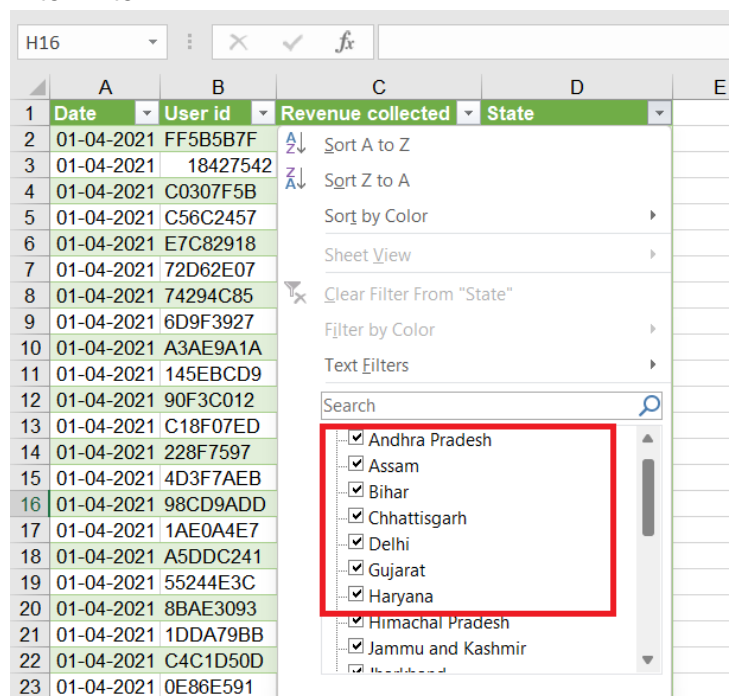|	Date	User id	Revenue collected	State	
14907	30-04-2021	6406086C	81	Tamil Nadu	
14908	30-04-2021	B562102A	55	Punjab	
14909	30-04-2021	5159612F	49	Rajasthan	
14910	30-04-2021	01DA0F63	19	Gujarat	
14911	30-04-2021	5C77B34E	76	Jharkhand	
14912	30-04-2021	325D8F51	64	Bihar	
14913	30-04-2021	15E91AF7	37	West Bengal	
14914	30-04-2021	DCDEFA1C	73	Jammu & Kashmir	
14915	30-04-2021	59AB0E34	65	Karnataka	

=VLOOKUP(B14907,'User Demographics'!$A$1:$C$1001,2,FALSE)

4. Now we will filter the entire 'Daily User-Vise Revenue Data' sheet in accordance to get distinct State names
Before Filter

After Filter

5. Now we have a drop down list of states. Hence we can check the Total Revenue of each state by using SUM function and we will make a table of it.

	A	B	C	D	E	F	G
						G3 =SUM(C:C)	
1	Date	User id	Revenue	State			
2	01-04-2021	74294C85	75	Andhra Pradesh			
3	01-04-2021	9C43D0F1	22	Andhra Pradesh		Total No. of Revenue Offered by Andhra Pradesh =	38329
4	01-04-2021	C8620D8C	44	Andhra Pradesh			
5	01-04-2021	AECBD81	45	Andhra Pradesh			
6	01-04-2021	4AB8D2E/	33	Andhra Pradesh			
7	01-04-2021	FE4BE4E!	13	Andhra Pradesh			
8	01-04-2021	F19D09B!	63	Andhra Pradesh			
9	01-04-2021	16192216	42	Andhra Pradesh			
10	01-04-2021	C1E74E3(	22	Andhra Pradesh			
11	01-04-2021	A2DF27B7	36	Andhra Pradesh			
12	01-04-2021	EA5D060E	51	Andhra Pradesh			
13	01-04-2021	CC0567C4	99	Andhra Pradesh			
14	01-04-2021	7042ECE(	26	Andhra Pradesh			

TABLE:-

9	Total Revenue Collected by each state	
10	State Name	T.R
11	Andhra Pradesh	38329
12	Assam	16344
13	Bihar	38885
14	Chattisgarh	71655
15	Delhi	37102
16	Gujrat	11385
17	Haryana	33314
18	Himachal Pradesh	15555
19	Jammu and Kashmir	31601
20	Jharkhand	21603
21	Karnataka	89345
22	Madhya Pradesh / MP	43255
23	Maharashtra	6075
24	Orissa	21703
25	Punjab	8077
26	Rajasthan	33347
27	Tamil Nadu	64190
28	Telangana	50928
29	Uttar Pradesh	17302
30	Uttarakhand	58555
31	West Bengal	68138
32	Unknown	21089

6. After Sorting the Table , the results are

Total Revenue Collected by each state	
State Name	T.R
Karnataka	89345
Chattisgarh	71655
West Bengal	68138
Tamil Nadu	64190
Uttarakhand	58555
Telangana	50928
Madhya Pradesh / MP	43255
Bihar	38885
Andhra Pradesh	38329
Delhi	37102
Rajasthan	33347
Haryana	33314
Jammu and Kashmir	31601
Orissa	21703
Jharkhand	21603
Unknown	21089
Uttar Pradesh	17302
Assam	16344
Himachal Pradesh	15555
Gujrat	11385
Punjab	8077
Maharashtra	6075

[2] What is the average number of users active on the App per day? (2 points)
Ans. 499.6666667 ~approx. 500
Step wise Solution

1. As we already have the filtered data of the 'Daily User-wise Revenue data' sheet .
   Hence from the 'Date' dropdown list, we can count the no. of active users of each day

Data of 03-04-2021

	A	B	C	D
	G183		fx	
1	Date ⟊	User id ⯆	Revenue collected ⯆	State ⯆
690	03-04-2021	A9247B21	4	Uttar Pradesh
691	03-04-2021	F3C79376	44	Chhattisgarh
692	03-04-2021	1CC6DCF8	34	Jharkhand
693	03-04-2021	69A3C687	69	Uttar Pradesh
694	03-04-2021	FF5B5B7F	53	Karnataka
695	03-04-2021	BC9E153B	60	Karnataka
696	03-04-2021	C793861C	84	West Bengal
697	03-04-2021	E93AE370	64	Bihar
698	03-04-2021	AB3B3B04	51	Tamil Nadu
699	03-04-2021	05DB7EC1	43	Jammu and Kashmir
700	03-04-2021	18427542	90	
701	03-04-2021	E38C2E29	12	Uttarakhand
702	03-04-2021	C0307F5B	113	Maharashtra
703	03-04-2021	C56C2457	53	Jammu and Kashmir
704	03-04-2021	E7C82918	33	Chhattisgarh
705	03-04-2021	FD2A17B6	47	Uttarakhand
706	03-04-2021	64FAC72B	69	Chhattisgarh
707	03-04-2021	BD986DC8	59	Karnataka

G4   =COUNT(A2:A952)

	A	B	C	D	E	F	G
2	03-04-2021	A9247B21	4	Uttar Pradesh			
3	03-04-2021	F3C79376	44	Chhattisgarh			
4	03-04-2021	1CC6DCF	34	Jharkhand		Total Users Active on 03/04/2021 =	951
5	03-04-2021	69A3C687	69	Uttar Pradesh			
6	03-04-2021	FF5B5B7F	53	Karnataka			
7	03-04-2021	BC9E153E	60	Karnataka			

2. Create the table:-

Total No. of users active per day	
Date	NOU(Total No. of Users
01-04-2021	347
02-04-2021	341
03-04-2021	951
04-04-2021	947
05-04-2021	345
06-04-2021	344
07-04-2021	346
08-04-2021	346
09-04-2021	338
10-04-2021	936
11-04-2021	935
12-04-2021	342
13-04-2021	344
14-04-2021	338
15-04-2021	338
16-04-2021	336
17-04-2021	935
18-04-2021	939
19-04-2021	337
20-04-2021	348
21-04-2021	343
22-04-2021	341
23-04-2021	340
24-04-2021	927
25-04-2021	931
26-04-2021	333
27-04-2021	340
28-04-2021	341
29-04-2021	331
30-04-2021	330

3. Find the average of the column[NOU] by using AVERAGE function

B58   fx   =AVERAGE(B28:B57)

	A	B
42	15-04-2021	338
43	16-04-2021	336
44	17-04-2021	935
45	18-04-2021	939
46	19-04-2021	337
47	20-04-2021	348
48	21-04-2021	343
49	22-04-2021	341
50	23-04-2021	340
51	24-04-2021	927
52	25-04-2021	931
53	26-04-2021	333
54	27-04-2021	340
55	28-04-2021	341
56	29-04-2021	331
57	30-04-2021	330
58	Average No. of Users Active Per Day	499.6666667
59	approx.	500

4. To get approx use ROUND function

B59   fx   =ROUND(B58,0)

	A	B
58	Average No. of Users Active Per Day	499.6666667
59	approx.	500

[3]What is the average revenue collected per user per day?

Ans. 53.22061 ~approx 53

Step wise Solution

	A	B	C	D	E	F	G	H	I
G3			=AVERAGE(Sheet1[Revenue collected])						
1	Date	User id	Revenue collected	State					
2	01-04-2021	FF5B5B7F	53	Karnataka					
3	01-04-2021	18427542	68	Chhattisgarh		average revenue collected per user per day =	53.22061	approx	53
4	01-04-2021	C0307F5B	85	Maharashtra					
5	01-04-2021	C56C2457	90	Jammu and Kashmir					
6	01-04-2021	E7C82918	75	Chhattisgarh					
7	01-04-2021	72D62E07	18	Karnataka					
8	01-04-2021	74294C85	75	Andhra Pradesh					
9	01-04-2021	6D9F3927	40	Madhya Pradesh					
10	01-04-2021	A3AE9A1A	49	Karnataka					
11	01-04-2021	145EBCD9	27	Jammu and Kashmir					
12	01-04-2021	90E3C012	36	Karnataka					