EDS_GROUP_PROJECT

GROUP MEMBERS:

401 – ALVIN ABRAHAM

404 – ARHANT NITNAWARE

407 – ANKIT NITNAWARE

414 – ANKIT KUMAR

DIV - D

BATCH - D1

DATASET – LOAN DATASET

LOAN DATASET CSV

Loa	Ge	Ma	Dep	Educ	Self_E	Applic	Coappli	Loan	Loan_A	Credi	Property
n_l	nd	rri	ende	atio	mplo	antInc	cantinc	Amo	mount_	t_Hist	_Area
D	er	ed	nts	n	yed	ome	ome	unt	Term	ory	
LP0	Ma	Yes	0	Grad	No	5720	0	110	360	1	Urban
010	le			uate							
15											
LP0	Ma	Yes	1	Grad	No	3076	1500	126	360	1	Urban
010	le			uate							
22											
LP0	Ma	Yes	2	Grad	No	5000	1800	208	360	1	Urban
010	le			uate							
31											
LP0	Ma	Yes	2	Grad	No	2340	2546	100	360		Urban
010	le			uate							
35											
LP0	Ma	No	0	Not	No	3276	0	78	360	1	Urban
010	le			Grad							
51				uate							
LP0	Ma	Yes	0	Not	Yes	2165	3422	152	360	1	Urban
010	le			Grad							
54				uate							
LP0	Fe	No	1	Not	No	2226	0	59	360	1	Semiurba
010	ma			Grad							n
55	le			uate							

1.00	N/1-	Vac	1	Nat	No	2001	Ιο	147	200	10	Dural
LP0 010	Ma le	Yes	2	Not	No	3881	0	147	360	0	Rural
56	ie			Grad							
	N/10	Voc	2	uate		12622	0	200	240	1	Lirban
LP0	Ma	Yes	2	Grad		13633	0	280	240	1	Urban
010	le			uate							
59											
LP0	Ma	No	0	Not	No	2400	2400	123	360	1	Semiurba
010	le			Grad							n
67				uate							
LP0	Ma	No	0	Not	No	3091	0	90	360	1	Urban
010	le			Grad							
78				uate							
LP0	Ma	Yes	1	Grad		2185	1516	162	360	1	Semiurba
010	le			uate							n
82											
LP0	Ma	No	3+	Grad	No	4166	0	40	180		Urban
010	le			uate							
83											
LP0	Ma	Yes	2	Grad		12173	0	166	360	0	Semiurba
010	le			uate							n
94											
LP0	Fe	No	0	Grad	No	4666	0	124	360	1	Semiurba
010	ma			uate							n
96	le										
LP0	Ma	No	1	Grad	No	5667	0	131	360	1	Urban
010	le			uate							
99											
LP0	Ma	Yes	2	Grad	No	4583	2916	200	360	1	Urban
011	le			uate							
05											
LP0	Ma	Yes	3+	Grad	No	3786	333	126	360	1	Semiurba
011	le			uate							n
07											
LP0	Ma	Yes	0	Grad	No	9226	7916	300	360	1	Urban
011	le			uate							
08											
LP0	Ma	No	0	Grad	No	1300	3470	100	180	1	Semiurba
011	le			uate							n
15											
LP0	Ma	Yes	1	Not	No	1888	1620	48	360	1	Urban
011	le			Grad							
21	-			uate							
LP0	Fe	No	3+	Not	No	2083	0	28	180	1	Urban
011	ma		•	Grad						-	0.5011
24	le			uate							
LP0		No	0	Grad	No	3909	0	101	360	1	Urban
011		140		uate	10	3303		101			O'Dail
28				uate							
LP0	Fe	No	0	Not	No	3765	0	125	360	1	Urban
011	ma	140		Grad	100	3703		123	300	1	Gradii
35	le										
33	ie	j .]	uate	1		1		1		

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LP0	Ma	Yes	0	Grad	No	5400	4380	290	360	1	Urban
011	le			uate							
49											
LP0	Ma	No	0	Grad	No	0	24000	148	360	0	Rural
011	le			uate							
53											
LP0	Ma	Yes	2	Grad	No	4363	1250	140	360		Urban
011	le			uate							
63											
LP0	Ma	Yes	0	Grad	No	7500	3750	275	360	1	Urban
011	le	100		uate		7300	0750	2,3		-	o o o o o
69				date							
LP0	Ma	Yes	0	Grad	No	3772	833	57	360		Semiurba
011	le	163	١٠	uate	INO	3//2	033	37	300		
74	ie			uate							n
	N 4 a	Na	0	Crad	No	2042	2202	125	100	1	Linkon
LP0	Ma	No	0	Grad	No	2942	2382	125	180	1	Urban
011	le			uate							
76											
LP0	Fe	No	0	Not	No	2478	0	75	360	1	Semiurba
011	ma			Grad							n
77	le			uate							
LP0	Ma	Yes	2	Grad	No	6250	820	192	360	1	Urban
011	le			uate							
83											
LP0	Ma	No	0	Grad	No	3268	1683	152	360	1	Semiurba
011	le			uate							n
85											
LP0	Ma	Yes	0	Grad	No	2783	2708	158	360	1	Urban
011	le			uate							
87											
LP0	Ma	Yes	0	Grad	No	2740	1541	101	360	1	Urban
011	le	103		uate	110	2740	1541	101	300	1	Orban
90	10			date							
LP0	Ma	No	0	Grad	No	3150	0	176	360	0	Semiurba
		INO	١٠		INO	3130	0	176	300	١٠	
012	le			uate							n
03	D 4 -	\/	2	C	1	7250	4020	105	100	4	I I de la co
LP0	Ma	Yes	2	Grad		7350	4029	185	180	1	Urban
012	le			uate							
08				-	ļ	1		1			
LP0	Ma	Yes	0	Grad	Yes	2267	2792	90	360	1	Urban
012	le			uate							
10											
LP0	Ma	No	0	Grad	Yes	5833	0	116	360	1	Urban
012	le			uate							
11											
LP0	Ma	No	0	Grad	No	3643	1963	138	360	1	Urban
012	le			uate							
19											
LP0	Ma	Yes	0	Grad	No	5629	818	100	360	1	Urban
012	le			uate							
20											
	1	1	<u> </u>	1	<u> </u>	1	1		1	L	

				_			1			1	
LP0	Fe	No	0	Grad	No	3644	0	110	360	1	Urban
012	ma			uate							
21	le										
LP0	Ma	Yes	0	Not	No	1750	2024	90	360	1	Semiurba
012	le			Grad							n
26				uate							
LP0	Ma	No	0	Grad	No	6500	2600	200	360	1	Semiurba
012	le			uate						-	n
30				date							''
LP0	Fe	No	0	Grad	No	3666	0	84	360	1	Urban
012		INO	0		NO	3000	0	04	300	1	Orban
	ma			uate							
31	le	.,				10.00	2222	105			
LP0	Ma	Yes	0	Grad	No	4260	3900	185			Urban
012	le			uate							
32											
LP0	Ma	Yes		Not	No	4163	1475	162	360	1	Urban
012	le			Grad							
37				uate							
LP0	Ma	No	0	Not	No	2356	1902	108	360	1	Semiurba
012	le			Grad							n
42				uate							
LP0	Ma	No	0	Grad	No	6792	3338	187		1	Urban
012	le	''		uate	''	0,32		107		-	o o o o o
68	10			uate							
LP0	N/10	Yes	3+	Not	Yes	8000	250	187	360	1	Comiurbo
	Ma	162	5+	Not	165	8000	250	10/	300	1	Semiurba
012	le			Grad							n
70				uate		2440	4=0=	101	2.50		
LP0	Ma	Yes	1	Grad	No	2419	1707	124	360	1	Urban
012	le			uate							
84											
LP0		Yes	3+	Not	No	3500	833	120	360	1	Semiurba
012				Grad							n
87				uate							
LP0	Ma	Yes	1	Grad	No	3500	3077	160	360	1	Semiurba
012	le			uate							n
91											
LP0	Ma	Yes	2	Grad	No	4116	1000	30	180	1	Urban
012	le			uate							
98	.~			33.00		1					
LP0	Ma	Yes	0	Not	Yes	5293	0	92	360	1	Urban
013	le	163		Grad	163	1223		1 22	300	1	Orbail
12	16					1					
	D 4 -	NI.		uate	NI -	2750	10	430	200		I I de a v
LP0	Ma	No	0	Grad	No	2750	0	130	360	0	Urban
013	le			uate		1					
13	<u> </u>			_		1	1_		 		
LP0	Fe	No	0	Not	No	4402	0	130	360	1	Rural
013	ma			Grad		1					
17	le			uate		1					
LP0	Ma	Yes	2	Grad	No	3613	3539	134	180	1	Semiurba
013	le			uate		1					n
21					1						
	1	1	<u> </u>	1	<u> </u>	_1			1		

1.00	Г.	Vaa	1	Crad	No	2770	2004	170	200	Τ_	Compiumbo
LP0 013	Fe	Yes	2	Grad	No	2779	3664	176	360	0	Semiurba
23	ma le			uate							n
	<u> </u>	Voc	2.	Crad	No	4720	_	00	100	1	Comiurbo
LP0	Ma	Yes	3+	Grad	No	4720	0	90	180	1	Semiurba
013	le			uate							n
24	N 4 -	V	_	Not	NI-	2445	1721	110	260	4	Carrairralaa
LP0	Ma	Yes	0	Not	No	2415	1721	110	360	1	Semiurba
013	le			Grad							n
32			0	uate		7046	202	425	260		I I do o
LP0	Ma	Yes	0	Grad	Yes	7016	292	125	360	1	Urban
013	le			uate							
35	_		_			40.00		100	260		
LP0	Fe	No	2	Grad	No	4968	0	189	360	1	Semiurba
013	ma			uate							n
38	le					2404	4500	100	260		
LP0	Fe	No	0	Grad	No	2101	1500	108	360	0	Rural
013	ma			uate							
47	le			1				105	2.00		
LP0	Ma	Yes	3+	Not	No	4490	0	125	360	1	Urban
013	le			Grad							
48	-		_	uate							
LP0	Ma	Yes	0	Grad	No	2917	3583	138	360	1	Semiurba
013	le			uate							n
51			_				_		1		
LP0	Ma	Yes	0	Not	No	4700	0	135	360	0	Semiurba
013	le			Grad							n
52	-		_	uate							
LP0	Ma	Yes	0	Grad	No	3445	0	130	360	0	Semiurba
013	le			uate							n
58						7000		107	2.00		
LP0	Ma	Yes	0	Grad	No	7666	0	187	360	1	Semiurba
013	le			uate							n
59						2.50		100	2.50		
LP0	Ma	Yes	0	Grad	No	2458	5105	188	360	0	Rural
013	le			uate							
61	_					2250	-	0.5	260		
LP0	Fe	No		Grad	No	3250	0	95	360	1	Semiurba
013	ma			uate							n
66	le			6	N	4460		65	200	4	Carrie
LP0	Ma	No	0	Grad	No	4463	0	65	360	1	Semiurba
013	le			uate							n
68	N 4 -	V	1	6,12,1	1	4000	4775	120	60		I I ala con
LP0	Ma	Yes	1	Grad		4083	1775	139	60	1	Urban
013	le			uate							
75	N 4 -	\/- ·		C 1	V	2000	2004	222	200	4	Divisal
LP0	Ma	Yes	0	Grad	Yes	3900	2094	232	360	1	Rural
013	le			uate							
80	D 4	1/-		N	N	4750	2502	444	260	4	
LP0	Ma	Yes	0	Not	No	4750	3583	144	360	1	Semiurba
013	le			Grad							n
86				uate							

1.00		N1 -				2502	2425	455	260	14	1111
LP0	Ma	No	0	Grad	No	3583	3435	155	360	1	Urban
014	le			uate							
00	N 4 =	V		Cuard	NI-	2400	2267	100	260	1	Linkara
LP0	Ma	Yes	0	Grad	No	3189	2367	186	360	1	Urban
014	le			uate							
07							_				
LP0	Ma	No	0	Grad	Yes	6356	0	50	360	1	Rural
014	le			uate							
13											
LP0	Ma	Yes	1	Grad	No	3413	4053		360	1	Semiurba
014	le			uate							n
15											
LP0	Fe	Yes	0	Grad	No	7950	0	185	360	1	Urban
014	ma			uate							
19	le										
LP0	Ma	Yes	3+	Grad	No	3829	1103	163	360	0	Urban
014	le			uate							
20											
LP0	Ma	Yes	3+	Grad	No	72529	0	360	360	1	Urban
014	le			uate							
28											
LP0	Ma	Yes	2	Not	No	4136	0	149	480	0	Rural
014	le			Grad							
45				uate							
LP0	Ma	Yes	0	Grad	No	8449	0	257	360	1	Rural
014	le			uate							
46											
LP0	Ma	Yes	0	Grad	No	4456	0	131	180	0	Semiurba
014	le			uate							n
50				0.0.00							
LP0	Ma	Yes	2	Grad	No	4635	8000	102	180	1	Rural
014	le			uate							
52				0.0.00							
LP0	Ma	Yes	0	Grad	No	3571	1917	135	360	1	Urban
014	le			uate		557 =				-	
55				date							
LP0	Ma	No	0	Grad	No	3066	0	95	360	1	Semiurba
014	le	''		uate	''						n
66	10			date							''
LP0	Ma	No	2	Not	No	3235	2015	77	360	1	Semiurba
014	le		_	Grad		3233		' '		-	n
71				uate							
LP0	Fe	No	0	Grad		5058	0	200	360	1	Rural
014	ma	140		uate		2020		200	300	1	Marai
72	le			uate							
LP0	Ma	Yes	0	Grad	Yes	3188	2286	130	360		Rural
014		162	١		162	2100	2200	130	300		nuldi
	le			uate							
75	N //	Voc	2.	Crad	Ne	12510		200	260	1	Durel
LPO	Ma	Yes	3+	Grad	No	13518	0	390	360	1	Rural
014	le			uate							
83						1					

	1		Ι.	T	T	T	T	1	T	т.	1
LP0 014	Ma le	Yes	1	Grad uate	No	4364	2500	185	360	1	Semiurba n
86						4700	1010	100	2.52		<u> </u>
LP0	Ma	Yes	2	Not	No	4766	1646	100	360	1	Semiurba
014	le			Grad							n
90	D.4 -		4	uate		4600	2222	422	260		C I
LP0	Ma	Yes	1	Grad	No	4609	2333	123	360	0	Semiurba
014	le			uate							n
96	_	.,	-	6 1		6260		110	260	-	6
LP0	Fe	Yes	3+	Grad	No	6260	0	110	360	1	Semiurba
014	ma			uate							n
99	le	\/	4	Cont	N1 -	2222	4200	25.6	260	- 4	I I I I I I I I I I I I I I I I I I I
LP0	Ma	Yes	1	Grad	No	3333	4200	256	360	1	Urban
015	le			uate							
00	N 4 =	V		Cuard	NI-	2500	2250	1.10	260	1	Canadanda
LP0	Ma	Yes	0	Grad	No	3500	3250	140	360	1	Semiurba
015	le			uate							n
01	N 4 =	V	2.	Cuard	NI-	0710	0	C1	260	1	Links
LP0	Ma	Yes	3+	Grad	No	9719	0	61	360	1	Urban
015	le			uate							
17	N 4 =	V	2.	Cuarl	NI-	6025		100	260		Caracirrulas
LP0	Ma	Yes	3+	Grad	No	6835	0	188	360		Semiurba
015	le			uate							n
27	N 4 =	NI-	0	Cuarl	NI-	4452		121	260	1	Dl
LP0	Ma	No	0	Grad	No	4452	0	131	360	1	Rural
015 34	le			uate							
	Fe	Yes	0	Crad	No	2262	0		480	0	Semiurba
LP0 015		res	U	Grad	INO	2202	0		480	0	
42	ma le			uate							n
LP0	Ma	Yes	1	Grad	No	3901	0	116	360	1	Urban
015	le	163	1	uate	INO	3901	0	110	300	1	Orban
	ie			uate							
47 LP0	Ma	Yes	2	Not	No	2687	0	50	180	1	Rural
015	le	163	_	Grad	INO	2007	0	30	100	1	Kulai
48	16			uate							
LP0	Ma	No	0	Grad	No	2243	2233	107	360		Semiurba
015	le	INO	"	uate	INO	2243	2233	107	300		n
58	ic			date							''
LP0	Fe	Yes	0	Grad	No	3417	1287	200	360	1	Semiurba
015	ma	103		uate	'10	5417	1207	200	300	1	n
61	le			date							''
LP0		No	0	Grad	No	1596	1760	119	360	0	Urban
015				uate		1330	1,00				0.5011
63				3.3.60							
LP0	Ma	Yes	3+	Grad	No	4513	0	120	360	1	Rural
015	le		•	uate		.515		120		1	
67											
LP0	Ma	Yes	0	Grad	No	4500	0	140	360	1	Semiurba
015	le			uate		.500		0		1	n
68											
-55	1	1	l	1	l	1	1		1		

				T		4500	4250	4.65	1260		1
LP0	Ma	Yes	0	Not	No	4523	1350	165	360	1	Urban
015	le			Grad							
73	F-	Al-	0	uate	Vaa	4742		100	260	1	Canainala
LP0	Fe	No	0	Grad	Yes	4742	0	108	360	1	Semiurba
015	ma			uate							n
84	le	.,		6 1		4000			260	-	6
LP0	Ma	Yes		Grad	No	4082	0	93	360	1	Semiurba
015	le			uate							n
87											
LP0	Fe	No	0	Grad	No	3417	0	102	360	1	Urban
015	ma			uate							
89	le										
LP0	Fe	Yes	2	Grad	No	2922	3396	122	360	1	Semiurba
015	ma			uate							n
91	le										
LP0	Ma	Yes	0	Grad	No	4167	4754	160	360	1	Rural
015	le			uate							
99											
LP0	Ma	No	3+	Grad	No	4243	4123	157	360		Semiurba
016	le			uate							n
01											
LP0	Fe	No	0	Not	No	0	1760	180	360	1	Semiurba
016	ma			Grad							n
07	le			uate							
LP0	Ma	Yes	1	Grad	No	1516	2900	80		0	Rural
016	le			uate							
11											
LP0	Fe	No	0	Grad	No	1762	2666	104	360	0	Urban
016	ma			uate							
13	le										
LP0	Ma	Yes	2	Grad	No	724	3510	213	360	0	Rural
016	le			uate							
22											
LP0	Ma	No	0	Grad	No	3125	0	65	360	1	Urban
016	le			uate							
27											
LP0	Ma	Yes	0	Grad	No	2333	3803	146	360	1	Rural
016	le			uate							
50											
LP0	Ma	Yes	3+	Grad	No	3350	1560	135	360	1	Urban
016	le			uate							
51											
LP0	Ma	No	0	Grad	No	2500	6414	187	360	0	Rural
016	le			uate							
52											
LP0	Fe	No	0	Grad	No	12500	0	300	360	0	Urban
016	ma			uate							
55	le										
LP0	Ma	No	0	Grad	No	4667	0	120	360	1	Semiurba
016	le			uate							n
60											
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LP0	Ma	No	0	Grad	No	6500	0	71	360	0	Urban
016	le			uate							
62											
LP0	Ma	Yes	2	Grad	No	7500	0	225	360	1	Urban
016	le			uate							
63											
LP0	Ma	No	0	Grad	No	3073	0	70	180	1	Urban
016	le			uate							
67	'			date							
LP0	N/10	Yes	1	Not	No	2221	2088	70		1	Comiurbo
	Ma	163	1	Not	INO	3321	2000	/0		1	Semiurba
016	le			Grad							n
95				uate							
LP0	Ma	Yes	0	Grad	No	3333	1270	124	360	1	Urban
017	le			uate							
03											
LP0	Ma	No	0	Grad	No	3391	0	132	360	1	Rural
017	le			uate							
18											
LP0	Ma	Yes	1	Grad	Yes	3343	1517	105	360	1	Rural
017	le	103	*	uate	103	3343	1317	103	300	-	Raiai
	ie			uate							
28	_		4			2620			260	-	
LP0	Fe	No	1	Grad	No	3620	0	90	360	1	Urban
017	ma			uate							
35	le										
LP0	Ma	No	0	Grad	No	4000	0	83	84	1	Urban
017	le			uate							
37											
LP0	Ma	Yes	0	Grad	No	4258	0	125	360	1	Urban
017	le			uate							
39											
LP0	Ma	Yes	2	Grad	No	4500	0	147	360	1	Rural
017	le	100	-	uate	''	1300		- ''		-	l
	10			uate							
42	N/1-	Vaa	1	Cuad	No	2014	2025	120	200	1	Direct
LP0	Ma	Yes	1	Grad	No	2014	2925	120	360	1	Rural
017	le			uate							
57											
LP0		No		Grad	No	3333	1250	110	360	1	Semiurba
017				uate							n
69											
LP0	Fe	No	3+	Grad	No	4083	0	103	360		Semiurba
017	ma			uate							n
71	le										
LP0	Ma	No	0	Grad	No	4727	0	150	360	0	Rural
017	le	''		uate	'10	7,2,		130			T.G. G.
	16			uate							
85	N 4	V-	2 .	6	NI -	2000	2000	400	240		Dl
LP0	Ma	Yes	3+	Grad	No	3089	2999	100	240	1	Rural
017	le			uate							
87									1		
LP0	Ma	Yes	3+	Not		6794	528	139	360	0	Urban
017	le			Gradu	ıate						
89											
				-			1	- 1			

LP0	Ma	Yes	0	Grad	Yes	32000	0	550	360		Semiurba
017 91	le			uate							n
LP0 017 94	Ma le	Yes	2	Grad uate	Yes	10890	0	260	12	1	Rural
LP0 017 97	Fe ma le	No	0	Grad uate	No	12941	0	150	300	1	Urban
LP0 018 15	Ma le	No	0	Not Grad uate	No	3276	0	90	360	1	Semiurba n
LP0 018 17	Ma le	No	0	Not Grad uate	Yes	8703	0	199	360	0	Rural
LP0 018 18	Ma le	Yes	1	Grad uate	No	4742	717	139	360	1	Semiurba n
LP0 018 22	Ma le	No	0	Grad uate	No	5900	0	150	360	1	Urban
LP0 018 27	Ma le	No	0	Grad uate	No	3071	4309	180	360	1	Urban
LP0 018 31	Ma le	Yes	0	Grad uate	No	2783	1456	113	360	1	Urban
LP0 018 42	Ma le	No	0	Grad uate	No	5000	0	148	360	1	Rural
LP0 018 53	Ma le	Yes	1	Not Grad uate	No	2463	2360	117	360	0	Urban
LP0 018 55	Ma le	Yes	2	Grad uate	No	4855	0	72	360	1	Rural
LP0 018 57	Ma le	No	0	Not Grad uate	Yes	1599	2474	125	300	1	Semiurba n
LP0 018 62	Ma le	Yes	2	Grad uate	Yes	4246	4246	214	360	1	Urban
LP0 018 67	Ma le	Yes	0	Grad uate	No	4333	2291	133	350	1	Rural
LP0 018 78	Ma le	No	1	Grad uate	No	5823	2529	187	360	1	Semiurba n
LP0 018 81	Ma le	Yes	0	Not Grad uate	No	7895	0	143	360	1	Rural

1.00					T	1450	1256	1200	1 2 6 0	1.	
LP0	Ma	No	0	Grad	No	4150	4256	209	360	1	Rural
018	le			uate							
86	N 4 -	NI.	_	Cuard		2064		0.4	260		Canainala
LP0	Ma	No	0	Grad		2964	0	84	360	0	Semiurba
019	le			uate							n
06	-	l									
LP0	Ma	No	0	Grad	No	5583	0	116	360	1	Urban
019	le			uate							
09											
LP0	Fe	No	0	Grad	No	2708	0	65	360	1	Rural
019	ma			uate							
11	le										
LP0	Ma	No	1	Grad	No	3180	2370	80	240		Rural
019	le			uate							
21											
LP0	Ma	No	0	Not	No	2268	0	170	360	0	Semiurba
019	le			Grad							n
23				uate							
LP0	Ma	No	2	Not	No	1141	2017	120	360	0	Urban
019	le	140	_	Grad	110	1171	2017	120	300		Orban
33	10			uate							
	N/10	Voc	0		No	2042	2167	125	260	1	Lirban
LP0	Ma	Yes	0	Grad	No	3042	3167	135	360	1	Urban
019	le			uate							
43	_					1==0	2005	-	2.50		
LP0	Fe	Yes	3+	Grad		1750	2935	94	360	0	Semiurba
019	ma			uate							n
50	le										
LP0	Fe	Yes	1	Grad	No	3564	0	79	360	1	Rural
019	ma			uate							
59	le										
LP0	Fe	No	0	Grad	No	3958	0	110	360	1	Rural
019	ma			uate							
61	le										
LP0	Ma	Yes	2	Not	No	4483	0	130	360	1	Rural
019	le			Grad							
73				uate							
LP0	Ma	Yes	0	Grad	No	5225	0	143	360	1	Rural
019	le			uate							
75											
LP0	Ma	No	0	Grad	No	3017	2845	159	180	0	Urban
019	le			uate							
79											
LP0	Ma	Yes	0	Not	No	2431	1820	110	360	0	Rural
019	le			Grad		51	1020	110			
95	.~			uate							
LP0	Ma	Yes	2	Grad		4912	4614	160	360	1	Rural
019	le	163	_			7312	7014	100	300	1	iturai
99	16			uate							
	N // ~	Voc	2	Not	No	2500	2222	121	260	1	Lirban
LP0	Ma	Yes	2	Not	No	2500	3333	131	360	1	Urban
020	le			Grad							
07				uate							

100	Г.	Na	Ι_0	Crad	No	2010	Ιο	l cr	200		Dural
LP0 020	Fe ma	No	0	Grad uate	No	2918	0	65	360		Rural
020	le			uate							
LP0	Ma	Yes	2	Grad	No	5128	0	143	360	1	Rural
020	le	103		uate	110	3120		173	300	1	Karar
16				uute							
LP0	Ma	Yes	3+	Grad	No	15312	0	187	360		Urban
020	le			uate							0.00
17											
LP0	Ma	Yes	2	Grad	No	3958	2632	160	360	1	Semiurba
020	le			uate							n
18											
LP0	Ma	Yes	0	Grad	No	4334	2945	165	360	1	Semiurba
020	le			uate							n
27											
LP0	Ma	Yes	2	Grad	No	4358	0	110	360	1	Urban
020	le			uate							
28											
LP0	Fe	Yes	1	Grad	No	4000	3917	173	360	1	Rural
020	ma			uate							
42	le										
LP0	Ma	Yes	3+	Grad	No	10166	750	150		1	Urban
020	le			uate							
45											
LP0	Ma	Yes	0	Not	No	4483	0	135	360		Semiurba
020	le			Grad							n
46			_	uate							
LP0	Ma	Yes	2	Not	No	4521	1184	150	360	1	Semiurba
020	le			Grad							n
47	N 4 -	V	2	uate	NI -	0167		225	260	1	Camaianda
LP0	Ma	Yes	2	Grad	No	9167	0	235	360	1	Semiurba
020	le			uate							n
56 LP0	Ma	Yes	0	Not	No	13083	0		360	1	Rural
020	le	163		Grad	INO	13063	"		300	1	Kurai
57	16			uate							
LP0	Ma	Yes	2	Grad	No	7874	3967	336	360	1	Rural
020	le	103	_	uate	110	7071	3307	330		1	Rarar
59				uute							
LP0	Fe	Yes	1	Grad	No	4333	0	132	84	1	Rural
020	ma			uate							
62	le										
LP0	Ma	No	0	Grad	No	4083	0	96	360	1	Urban
020	le			uate							
64											
LP0	Ma	Yes	2	Not		3785	2912	180	360	0	Rural
020	le			Gradu	ıate						
69											
LP0	Ma	Yes	3+	Not	No	2654	1998	128	360	0	Rural
020	le			Grad							
70				uate							

LP0 020	Ma le	Yes	1	Grad uate	No	10000	2690	412	360	1	Semiurba n
77 LP0 020	Ma le	No	0	Grad uate	Yes	5833	0	116	360	1	Urban
83 LP0 020 90	Ma le	Yes	1	Grad uate	No	4796	0	114	360	0	Semiurba n
LP0 020 96	Ma le	Yes	0	Not Grad uate	No	2000	1600	115	360	1	Rural
LP0 020 99	Ma le	Yes	2	Grad uate	No	2540	700	104	360	0	Urban
LP0 021 02	Ma le	Yes	0	Grad uate	Yes	1900	1442	88	360	1	Rural
LP0 021 05	Ma le	Yes	0	Grad uate	Yes	8706	0	108	480	1	Rural
LP0 021 07	Ma le	Yes	3+	Not Grad uate	No	2855	542	90	360	1	Urban
LP0 021 11	Ma le	Yes		Grad uate	No	3016	1300	100	360		Urban
LP0 021 17	Fe ma le	Yes	0	Grad uate	No	3159	2374	108	360	1	Semiurba n
LP0 021 18	Fe ma le	No	0	Grad uate	No	1937	1152	78	360	1	Semiurba n
LP0 021 23	Ma le	Yes	0	Grad uate	No	2613	2417	123	360	1	Semiurba n
LP0 021 25	Ma le	Yes	1	Grad uate	No	4960	2600	187	360	1	Semiurba n
LP0 021 48	Ma le	Yes	1	Grad uate	No	3074	1083	146	360	1	Semiurba n
LP0 021 52	Fe ma le	No	0	Grad uate	No	4213	0	80	360	1	Urban
LP0 021 65		No	1	Not Grad uate	No	2038	4027	100	360	1	Rural
LP0 021 67	Fe ma le	No	0	Grad uate	No	2362	0	55	360	1	Urban

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LPO		ie			uate							
O21		N 4 -	V	2.	Cund	V	5204	0	150	260	1	Canainala
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LPO		ie			uate							n
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76			NO	U		NO	5/08	0	150	360	1	Rurai
LPO		ie			uate							
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LPO		ie										
Deficiency Process			.,		+		2011	2422	150	200		
R4			Yes	0		No	2914	2130	150	300	1	Urban
LPO		ie										
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Record R			Yes	0		No	2747	2458	118	36	1	Semiurba
Decision Process Pro		le										n
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92			Yes	0		No	7830	2183	212	360	1	Rural
Decision Process Pro		le			uate							
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Second S		Ma	Yes	1	Grad	Yes	3507	3148	212	360	1	Rural
LPO		le			uate							
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No		Ma	Yes	1	Grad	No	3747	2139	125	360	1	Urban
LPO		le			uate							
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12	LP0	Ma	Yes	0	Grad	No	2166	2166	108	360		Urban
LPO		le			uate							
022 Ie Grad uate Sepéc 0 80 480 1 Urban LP0 Ma Yes 2 Not Grad uate No 2896 0 80 480 1 Urban LP0 Fe No 1 Grad uate No 5062 0 152 300 1 Rural 1 LP0 Fe No 2 Grad uate Yes 5184 0 187 360 0 Semiurban 022 ma No 2 Grad uate No 2545 0 74 360 1 Urban 1 LP0 Ma Yes 0 Grad uate No 2553 1768 102 360 1 Urban 1 LP0 Ma Yes 1 Grad No 3436 3809 100 360 1 Rural												
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LPO Ma Yes 2 Ie Not Grad uate No Grad uate 2896 0 80 480 1 Urban Image of the property of the propert	022	le			Grad							
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45 ————————————————————————————————————		Ma	Yes	2	Not	No	2896	0	80	480	1	Urban
LPO Fe ma o22 ma solute No o22 ma solute No o22 ma solute No o22 ma solute No o22 ma solute Solute No o22 ma solute Solute No o22 ma solute No o25 ma so	022	le			Grad							
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LPO Fe No 022 ma 56 le No 02 ma 187 360 0 Semiurba n 187 LPO Fe No 022 ma 57 le No 0 Grad uate uate 187 No 0 Grad uate 187 No 025 No 02		ma			uate							
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56 le No O Grad uate No 2545 O 74 360 1 Urban uate Urba		Fe	No	2	Grad	Yes	5184	0	187	360	0	Semiurba
LPO Fe No 022 ma 1 le No 0 Grad uate No 02545 0 74 360 1 1 Urban 1 le 57 le No 022 le Grad uate No 02553 1768 102 360 1 1 Urban 1 le LPO Ma Ves 0 le Grad uate No 025 3436 3809 100 360 1 Rural					uate							n
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57 le Ie Ie<		Fe	No	0	Grad	No	2545	0	74	360	1	Urban
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64 LPO Ma Yes 1 Grad No 3436 3809 100 360 1 Rural	LP0	Ma	Yes	0	Grad	No	2553	1768	102	360	1	Urban
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	64		<u> </u>			<u> </u>	<u></u>			<u> </u>		
022 le uate	LP0	Ma	Yes	1	Grad	No	3436	3809	100	360	1	Rural
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70	70											

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LP0	Ma	No	0	Grad	No	2412	2755	130	360	1	Rural
022	le			uate							
79											
LP0	Ma	Yes	3+	Not	No	5180	0	125	360	0	Urban
022	le			Grad							
86				uate							
LP0	Ma	No	0	Grad	No	14911	14507	130	360	1	Semiurba
022	le			uate							n
94											
LP0		No	0	Grad	Yes	2860	2988	138	360	1	Urban
022				uate							
98											
LP0	Ma	Yes	0	Grad	No	1173	1594	28	180	1	Rural
023	le			uate							
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LP0	Fe	No	1	Grad	No	7600	0	92	360	1	Semiurba
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LP0	Fe	Yes	0	Grad	No	2157	1788	104	360	1	Urban
023	ma			uate							
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LP0	Ma	No	0	Grad	No	2231	2774	176	360	0	Urban
023	le			uate							
16											
LP0	Fe	No	0	Grad	No	2274	5211	117	360	0	Semiurba
023	ma			uate							n
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LP0	Ma	Yes	2	Not	No	6166	13983	102	360	1	Rural
023	le			Grad							
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LP0	Ma	Yes	2	Not	No	2513	1110	107	360	1	Semiurba
023	le			Grad							n
26				uate							
LP0	Ma	No	0	Grad	No	4333	0	66	480	1	Urban
023	le			uate							
29											
LP0	Ma	No	0	Not	No	3844	0	105	360	1	Urban
023	le			Grad							
33				uate	<u> </u>				<u> </u>		
LP0	Ma	Yes	0	Grad	No	3887	1517	105	360	0	Semiurba
023	le			uate							n
39											
LP0	Ma	Yes	0	Grad	No	3510	828	105	360	1	Semiurba
023	le			uate							n
44									<u> </u>		
LP0	Ma	Yes	0	Grad		2539	1704	125	360	0	Rural
023	le			uate							
46											
LP0	Fe	No	0	Not	No	2107	0	64	360	1	Semiurba
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54	le			uate							
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D23 Re	LP0		Yes	0	Grad	No	3186	3145	150	180	0	Semiurba
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S8			Yes	2		Yes	5000	2166	150	360	1	Urban
IPO		ie			uate							
O23 Ie O24 O25		Ma	Voc		Grad	No	10000	0		260	1	Urban
Formula Form			163			INO	10000	0		300	1	Orban
No		10			uate							
		Ma	Yes	0	Not	Yes	3943	0	64	360	1	Semiurba
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No												
DO		Ma	No	0		No	2925	0	40	180	1	Rural
LPO		le										
No	76											
R3	LP0	Ma	Yes	3+	Grad	No	3242	437	142	480	0	Urban
LPO	023	le			uate							
No	83											
S		Ma	Yes		Grad	No	3863	0	70	300	1	Semiurba
Fe No		le			uate							n
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LPO					uate							n
D23			.,	_			4040	4005	120	260		
Part			yes	2		NO	4010	1025	120	360	1	Urban
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Description		Fρ	Ves	1	Grad	No	3719	1585	11/1	360	1	Urhan
Pro			163			INO	3/13	1383	114	300	1	Orban
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Po												
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OO Ie Grad No 3333 4288 160 360 1 Urban LPO Ma Yes O Grad No 3007 3725 151 360 1 Rural LPO Ma Yes O Grad No 3007 3725 151 360 1 Rural LPO Fe No 1 Grad uate 4583 81 360 Rural LPO Ma Yes 3+ Not No 2792 2619 171 360 1 Semiurba 024 Ie Grad Uate Grad Uate 150 150 110 360 1 Semiurba 17 Wa Yes 0 Grad No 2982 1550 110 360 1 Semiurba	LP0	Fe	Yes	0	Grad	No	3833	0	92	360	1	Rural
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12 -			Yes	0		No	3007	3725	151	360	1	Rural
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20												

LDO	1.40	No	0	Crad	No	2417	720	100	260		Dural
LP0 024	Ma le	No	0	Grad uate	No	3417	738	100	360		Rural
25	16			uate							
LP0	Ma	Yes	1	Grad	No	18840	0	234	360	1	Rural
024	le	103	_	uate	100	10040		254	300	1	Karai
33	'			date							
LP0	Ma	Yes	2	Grad	No	2995	1120	184	360	1	Rural
024	le	103	_	uate	110	2333	1120	10.		-	Rarar
40				date							
LP0	Ma	No		Grad	No	3579	3308	138	360		Semiurba
024	le			uate	''	3373	3300				n
41				0.0.00							
LP0	Fe	Yes	1	Not	No	3835	1400	112	480	0	Urban
024	ma			Grad							
42	le			uate							
LP0	Fe	No	1	Not	No	3854	3575	117	360	1	Rural
024	ma			Grad							
45	le			uate							
LP0	Ma	Yes	2	Grad	No	5833	750	49	360	0	Rural
024	le			uate							
50											
LP0	Ma	No	0	Grad	No	3508	0	99	360	1	Rural
024	le			uate							
71											
LP0	Fe	Yes	3+	Not	No	1635	2444	99	360	1	Urban
024	ma			Grad							
76	le			uate							
LP0	Fe	No	0	Grad	Yes	3333	3916	212	360	1	Rural
024	ma			uate							
82	le										
LP0	Ma	No	1	Grad	No	24797	0	240	360	1	Semiurba
024	le			uate							n
85											
LP0	Ma	Yes	2	Grad	No	5667	440	130	360	0	Semiurba
024	le			uate							n
95											
LP0	Fe	No	0	Grad	No	3500	0	94	360	0	Semiurba
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LP0	Ma	Yes	3+	Grad	No	2773	1497	108	360	1	Semiurba
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LP0	Ma	Yes	3+	Not		3634	910	176	360	0	Semiurba
025	le			Gradu	iate						n
51											

LP0 025		No	0	Grad uate	No	29167	0	185	360	1	Semiurba n
53											
LP0	Ma	No	0	Grad	No	2166	2057	122	360	1	Semiurba
025	le			uate							n
54			_	<u> </u>			_				<u> </u>
LP0	Ma	Yes	0	Grad	No	5000	0	126	360	1	Rural
025	le			uate							
61		_						40=	2.50		
LP0	Fe	No	0	Grad	No	5530	0	135	360		Urban
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66	le	NI-	_	NI-+	NIa	0000	0	122	260	1	Dl
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025 68	le			Grad							
LP0	Fe	Yes	2	uate Grad	No	10000	11666	460	360	1	Urban
025	ma	162	2		INO	10000	11000	460	300	1	Orban
70	le			uate							
LP0	Ma	Yes	1	Grad		8750	0	297	360	1	Urban
025	le	163		uate		8730	U	237	300	1	Orban
72	10			uate							
LP0	Ma	Yes	0	Not	No	2157	2730	140	360		Rural
025	le	103		Grad	110	2137	2730	140			Karai
81				uate							
LP0	Ma	No	0	Grad		1972	4347	106	360	1	Rural
025	le			uate		1372	13 17	100			Trainer
84											
LP0	Ma	No	0	Grad	No	4983	0	141	360	1	Urban
025	le			uate							
92											
LP0	Ma	Yes	1	Grad	No	8333	4000		360	1	Urban
025	le			uate							
93											
LP0	Ma	Yes	0	Grad	No	3667	2000	170	360	1	Semiurba
025	le			uate							n
99											
LP0	Ma	Yes	2	Grad	No	3166	2833	145	360	1	Urban
026	le			uate							
04											
LP0	Ma	No	0	Not	No	3271	0	90	360	1	Rural
026	le			Grad							
05				uate					1		
LP0	Fe	Yes	0	Grad	No	2241	2000	88	360	0	Urban
026	ma			uate							
09	le	ļ	_					1	1		
LP0	Ma	Yes	1	Not		1792	2565	128	360	1	Urban
026	le			Gradu	iate						
10	<u> </u>			<u> </u>		0.5.5.		1			
LP0	Fe	Yes	0	Grad	No	2666	0	84	480	1	Semiurba
026	ma			uate							n
12	le										

LP0 026		No	0	Grad uate	No	6478	0	108	360	1	Semiurba n
14											
LP0	Ma	No	0	Not		3808	0	83	360	1	Rural
026	le			Gradu	ıate						
30					T						
LP0	Fe	Yes	2	Not	No	3729	0	117	360	1	Semiurba
026	ma			Grad							n
35	le	.,		uate		4400		120	260		
LP0	Ma	Yes	2	Grad	No	4120	0	128	360	1	Rural
026 39	le			uate							
LP0	Ma	Yes	1	Grad	Yes	7500	0	75	360	1	Urban
026	le	163	-	uate	163	7300	0	/3	300	1	Orban
44	1.0			uute							
LP0	Ma	Yes	1	Grad		6300	0	125	360	0	Urban
026	le			uate							
51											
LP0	Fe	No		Grad	Yes	14987	0	177	360	1	Rural
026	ma			uate							
54	le										
LP0		Yes	1	Not	Yes	570	2125	68	360	1	Rural
026				Grad							
57				uate							
LP0	Ma	Yes	0	Grad	No	2600	700	96	360	1	Semiurba
027	le			uate							n
11 LP0	Ma	No	2	Not	No	2733	1083	180	360		Semiurba
027	le	INO	2	Grad	NO	2/33	1083	180	360		
12	ie			uate							n
LP0	Ma	Yes	2	Grad	Yes	7500	0	183	360	1	Rural
027	le		-	uate	100	7.000					110101
21											
LP0	Ma	Yes	2	Not	No	3859	0	121	360	1	Rural
027	le			Grad							
35				uate							
LP0	Ma	Yes	1	Grad	No	6825	0	162	360	1	Rural
027	le			uate							
44				1							
LP0	Ma	Yes	0	Grad	No	3708	4700	132	360	1	Semiurba
027	le			uate							n
45	N/10	No	0	Crad	No	F214	0	1.47	260	1	Lirban
LP0 027	Ma le	No	0	Grad uate	No	5314	0	147	360	1	Urban
46	'6			Jace							
LP0	Fe	No	3+	Grad	No	2366	5272	153	360	0	Rural
027	ma			uate							1.3.3.
47	le										
LP0	Ma	No		Grad	No	2066	2108	104	84	1	Urban
027	le			uate							
54									<u> </u>		

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LP0	Ma	Yes	2	Grad	No	5000	0	149	360	1	Rural
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59	_		_								
LP0	Fe	No	0	Grad	No	3767	0	134	300	1	Urban
027	ma			uate							
60	le										
LP0	Fe	Yes	0	Grad	No	7859	879	165	180	1	Semiurba
027	ma			uate							n
66	le										
LP0	Fe	Yes	0	Grad	No	4283	0	120	360	1	Rural
027	ma			uate							
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LP0	Ma	Yes	0	Not	No	1700	2900	67	360	0	Urban
027	le			Grad							
74				uate							
LP0		No	0	Not	No	4768	0	125	360	1	Rural
027		''		Grad		1,700		123			- Turur
75				uate							
LP0	Ma	No	0	Grad	No	3083	2738	120	360	1	Urban
027	le	INO	"	uate	INO	3003	2730	120	300	1	Orban
81	16			uate							
	Ma	Yes	1	Grad	No	2667	1542	1.10	360	1	Bural
LP0		162	1	Grad	NO	2007	1542	148	300	1	Rural
027	le			uate							
82	_	.,		.		4647	4760	101	260		
LP0	Fe	Yes	0	Not	No	1647	1762	181	360	1	Urban
027	ma			Grad							
86	le	.,		uate					100		
LP0	Ma	Yes	3+	Grad	No	3400	0	80	120	1	Urban
027	le			uate							
90											
LP0	Ma	No	1	Grad		16000	5000	40	360	1	Semiurba
027	le			uate							n
91											
LP0	Ma	Yes	0	Grad	No	5333	0	90	360	1	Rural
027	le			uate							
93											
LP0	Ma	No	0	Grad	No	2875	2416	95	6	0	Semiurba
028	le			uate							n
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LP0	Ma	Yes	1	Not		2600	618	122	360	1	Semiurba
028	le			Gradu	iate						n
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LP0	Ma	Yes	2	Grad	No	5041	700	150	360	1	Urban
028	le			uate							
05											
LP0	Ma	Yes	3+	Grad	Yes	6958	1411	150	360	1	Rural
028	le			uate							
06											
LP0	Ma	Yes	1	Grad	No	3500	1658	104	360		Semiurba
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028	le			uate							
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LP0	Fe	Yes	1	Not	No	3621	2717	171	360	1	Urban
028	ma			Grad							
26	le			uate							
LP0	Fe	Yes	0	Grad	No	4709	0	113	360	1	Semiurba
028	ma			uate							n
43	le										
LP0	Ma	Yes	0	Grad	No	1516	1951	35	360	1	Semiurba
028	le			uate							n
49											
LP0	Ma	No	2	Grad	No	2400	0	46	360	1	Urban
028	le			uate							
50											
LP0	Fe	No	0	Not	No	3015	2000	145	360		Urban
028	ma	100		Grad	110	3013	2000	1 - 3	300		orban
53	le			uate							
LP0	Ma	Yes	0	Grad	No	2292	1558	119	360	1	Urban
028		163	0		INO	2232	1336	119	300	1	Orban
56	le			uate							
	N/10	Vaa	1	Cuad	Voc	2260	2255	87	240	1	Dural
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57	-	N 1.		Cont	N1 -	4222	2222	4.62	260		Dl
LP0	Fe	No	0	Grad	No	4333	2333	162	360	0	Rural
028	ma			uate							
58	le										
LP0	Ma	Yes	0	Grad	Yes	2623	4831	122	180	1	Semiurba
028	le			uate							n
60											
LP0	Ma	No	0	Grad	Yes	3972	4275	187	360	1	Rural
028	le			uate							
67											
LP0	Ma	Yes	3+	Not	No	3522	0	81	180	1	Rural
028	le			Grad							
69				uate							
LP0	Ma	Yes	1	Grad	No	4700	0	80	360	1	Urban
028	le			uate							
70											
LP0	Ma	No	0	Grad	No	6858	0	176	360	1	Rural
028	le			uate							
76											
LP0	Ma	Yes	3+	Grad	No	8334	0	260	360	1	Urban
028	le			uate							
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90			Yes	2		No	3418	1380	135	360		Urban
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91			Yes	0		Yes	2500	296	137	300	1	Rural
LPO		le			uate							
1												
99		Ma	Yes	2	Grad	No	8667	0	254	360	1	Rural
LPO		le			uate							
DO	99											
O1	LP0	Ma	No	0	Grad	No	2283	15000	106	360		Rural
LPO	029	le			uate							
DOP Na	01											
O7	LP0	Ma	Yes	0	Grad	No	5817	910	109	360	1	Urban
LPO	029	le			uate							
LPO	07											
No	LP0	Ma	Yes	0	Grad	No	5119	3769	120	360	1	Rural
20												
LPO												
Decomposition Composition Composition		Ma	Yes	3+	Not	No	5316	187	158	180	0	Semiurba
21												
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LP0	Ma	No	0	Grad	No	3250	1993	126	360		Semiurba
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80											
LP0	Ma	Yes	0	Grad	No	5000	2393	158	360	1	Rural
029	le			uate							
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LP0	Ma	No	0	Grad	Yes	9200	0	98	180	1	Rural
029	le			uate							
89											

```
CODE:
import pandas as pd
import matplotlib.pyplot as plt
#Reading csv file
df = pd.read_csv('Loan_dataset.csv')
#---- cleaning Data ----#
# Dropping such rows where the value for the given column is either na or blank
df.dropna(subset=['Loan_ID', 'Gender', 'Married', 'Dependents', 'Education', 'Self_Employed',
'Credit_History', 'Property_Area', 'Loan_Amount_Term'], inplace=True)
#calculating mean to replace NaN or missing values
applicant_income_mean = df['ApplicantIncome'].mean()
co_applicant_income_mean = df['CoapplicantIncome'].mean()
loan_amt_mean = df['LoanAmount'].mean()
# replacing Nan or missing values with their mean of theie respective column
df.fillna({'ApplicantIncome': applicant_income_mean, 'CoapplicantIncome':
co_applicant_income_mean, 'LoanAmount': loan_amt_mean}, inplace=True)
```

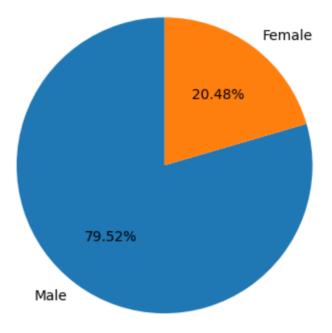
#---- population data charts ----#

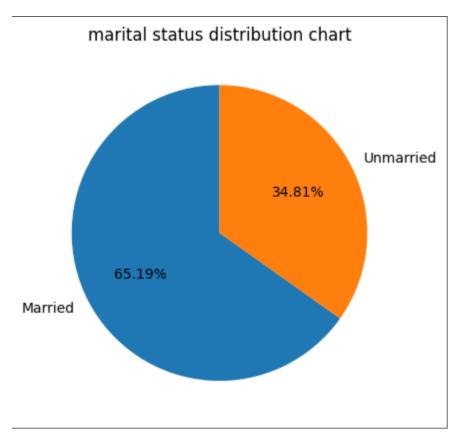
```
#number of male v/s number of female pi-chart
labels = df['Gender'].unique()
values = [df[df['Gender'] == 'Male'].shape[0], df[df['Gender'] == 'Female'].shape[0]]
plt.pie(values, labels=labels, startangle= 90, autopct='%1.2f%%')
plt.title('Gender distribution of population')
plt.show()
#number of grduated v/s number of non graduates pi chart
labels = df['Education'].unique()
values = [df[df['Education'] == 'Graduate'].shape[0], df[df['Education'] == 'Not Graduate'].shape[0]]
plt.pie(values, labels=labels, startangle=90, autopct='%1.2f%%')
plt.title('Education distribution chart')
plt.show()
#married v/s unmarried pi chart
labels = ['Married', 'Unmarried']
values = [df[df['Married'] == 'Yes'].shape[0], df[df['Married'] == 'No'].shape[0]]
plt.pie(values, labels=labels, startangle=90, autopct='%1.2f%%')
plt.title('marital status distribution chart')
plt.show()
#self-employe v/s not self-employed pi chart
labels = ['self Employed', 'Not Self Employed']
values = [df[df['Self_Employed'] == 'Yes'].shape[0], df[df['Self_Employed'] == 'No'].shape[0]]
plt.pie(values, labels=labels, startangle=90, autopct='%1.2f%%')
plt.title('Self Employment distribution chart')
plt.show()
#property area pi chart
labels = df['Property_Area'].unique()
```

```
values = [df[df['Property_Area'] == 'Urban'].shape[0], df[df['Property_Area'] ==
'Semiurban'].shape[0], df[df['Property Area'] == 'Rural'].shape[0]]
plt.pie(values, labels=labels, startangle=90, autopct='%1.2f%%')
plt.title('Property area distribution chart')
plt.show()
#---- plotting graphs acceptance rate----#
#Gender v/s acceptance plot
labels = df['Gender'].unique()
values = [df[(df['Gender'] == 'Male') & (df['Credit_History'] == 1)].shape[0] / df[(df['Gender'] ==
'Male')].shape[0] * 100,
      df[(df['Gender'] == 'Female') & (df['Credit_History'] == 1)].shape[0] / df[(df['Gender'] ==
'Female')].shape[0] * 100]
print(values)
plt.bar(labels, values)
plt.show()
#Marital status v/s acceptance rate
labels = ['Married', 'Not married']
values = [df[(df['Married'] == 'Yes') & (df['Credit_History'] == 1)].shape[0] / df[df['Married'] ==
'Yes'].shape[0] * 100,
      df[(df['Married'] == 'No') & (df['Credit History'] == 1)].shape[0] / df[df['Married'] ==
'No'].shape[0] * 100 ]
print(values)
plt.bar(labels, values)
plt.show()
#Education v/s acceptance rate
labels = ['Graduated', 'Not Graduated']
```

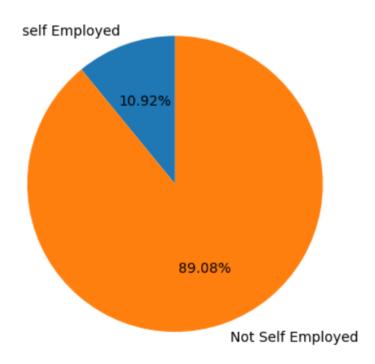
```
values = [df[(df['Education'] == 'Graduate') & (df['Credit_History'] == 1)].shape[0] / df[df['Education']
== 'Graduate'].shape[0] * 100,
     df[(df['Education'] == 'Not Graduate') & (df['Credit History'] == 1)].shape[0] / df[df['Education']
== 'Not Graduate'].shape[0] * 100 ]
print(values)
plt.bar(labels, values)
plt.show()
#property area v/s acceptance rate
labels = (df['Property_Area'].unique())
values = [df[(df['Property_Area'] == 'Urban') & (df['Credit_History'] == 1)].shape[0] /
df[df['Property_Area'] == 'Urban'].shape[0] * 100,
     df[(df['Property_Area'] == 'Semiurban') & (df['Credit_History'] == 1)].shape[0] /
df[df['Property_Area'] == 'Semiurban'].shape[0] * 100,
     df[(df['Property_Area'] == 'Rural') & (df['Credit_History'] == 1)].shape[0] /
df[df['Property_Area'] == 'Rural'].shape[0] * 100 ]
print(values)
plt.bar(labels, values)
plt.show()
GRAPHS:
```

Gender distribution of population

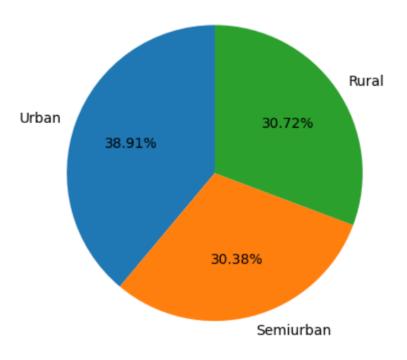


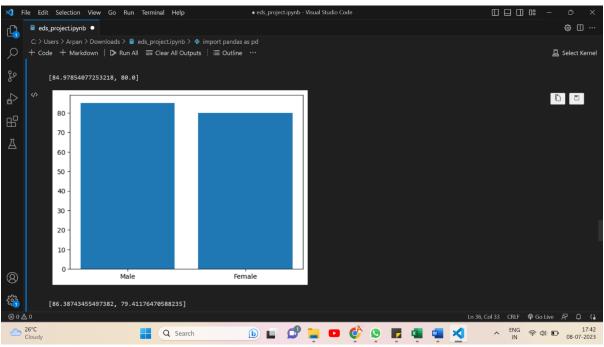


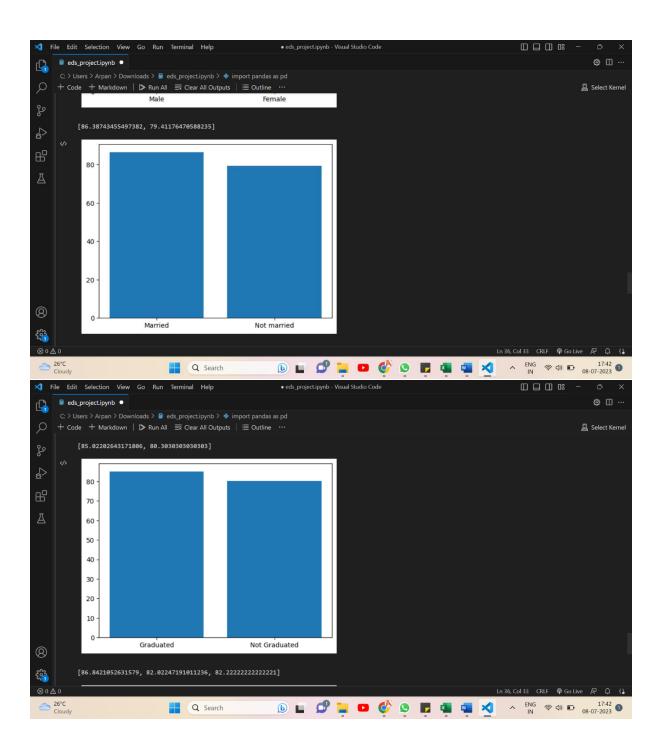
Self Employment distribution chart

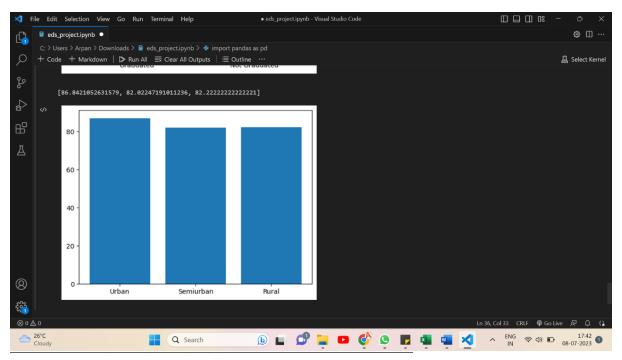


Property area distribution chart









Education distribution chart

