# t-exam-centre-allocation-sajitha

#### September 6, 2023

```
[1]: #LIBRARIES NEEDED
     import pandas as pd
     import numpy as np
[2]: data=pd.read_csv(r"C:\Users\Sajitha Sharon\Downloads\examdatabase.csv")#__
      →READIND DATA
     data.shape
[2]: (3352, 13)
     data.head()#TOP 5 ROWS
[3]:
        Application_ID
                              D_O_B SEX H_Qual TH_CENT_CH SEC_TH_CEN CATEGORY \
     0
                9598673
                          9/13/1989
                                       F
                                               X
                                                        WGL
                                                                   KARN
                                                                              OBC
                                                                   KARN
     1
               9657127
                          6/14/1989
                                       М
                                           GRAD
                                                        WGL
                                                                              ST
     2
                9657164
                         10/13/1989
                                       F
                                               X
                                                        WGL
                                                                   KARN
                                                                              GEN
     3
                9657217
                          8/22/1985
                                       Μ
                                           GRAD
                                                        WGL
                                                                   KARN
                                                                              OBC
                9657229
                          9/20/1991
                                               X
                                                        WGL
                                                                   KARN
                                                                              GEN
        Rollno cent_allot cent_add examDate
                                               batch rep_time
     0
           NaN
                       NaN
                                 NaN
                                          NaN
                                                  NaN
                                                           NaN
     1
           NaN
                       NaN
                                 NaN
                                          NaN
                                                  NaN
                                                           NaN
                       NaN
     2
           NaN
                                 NaN
                                          NaN
                                                  NaN
                                                           NaN
     3
           NaN
                       NaN
                                 NaN
                                          NaN
                                                  NaN
                                                           NaN
     4
           NaN
                       NaN
                                 NaN
                                          NaN
                                                  NaN
                                                           NaN
[4]: #PRINTING UNIQUE VALUE COUNTS IN EACH COLUMN
     for i in data.columns:
         print(data[i].value_counts())
    9598673
                 1
    9986747
                 1
    10087354
    10087436
                 1
    10087450
                 1
    9815352
                 1
    9815356
```

```
9815434
            1
9815474
            1
10107840
Name: Application_ID, Length: 3352, dtype: int64
01-01-2003
              35
01-01-2001
              32
01-01-2004
              31
01-01-1999
              27
01-01-2000
              24
               . .
7/26/1987
               1
08-03-1999
               1
08-03-2001
               1
4/23/2004
               1
8/21/1986
               1
Name: D_O_B, Length: 2154, dtype: int64
М
     1798
F
     1554
Name: SEX, dtype: int64
Х
        1231
XII
         875
GRAD
         703
UX
         361
PD
          74
          65
OTH
          43
XITI
Name: H_Qual, dtype: int64
WGL
        299
        289
MAHB
KUN
        249
GUN
        198
KARN
        196
KRS
        171
CTT
        169
VIZ
        150
PRA
        145
        130
NALG
MED
        128
ADI
        123
KPM
        119
ANA
        107
TRI
        107
KHAM
         85
NEL
         85
SOA
         84
VIZI
         84
EGOD
         84
SIR
         80
```

```
NIZA
         73
PUD
         70
KRK
         69
WGOD
         56
VIJ
          1
PNI
          1
Name: TH_CENT_CH, dtype: int64
VIJ
         373
ANA
         308
URHYD
         293
KARN
         271
VIZI
         200
NIZA
         189
RANG
         158
KUN
         147
WGL
         132
VLR
         120
PNI
         110
VIZ
         110
CTT
         109
NALG
          89
PRA
          86
NEL
          85
PBL
          84
GUN
          84
WGOD
          84
MAHB
          74
PUD
          69
PRT
          64
EGOD
          52
KHAM
          42
MED
          10
KRS
           5
ADI
           1
TNJ
           1
KRK
           1
TRI
           1
Name: SEC_TH_CEN, dtype: int64
OBC
       1764
GEN
        899
SC
        461
ST
        228
Name: CATEGORY, dtype: int64
Series([], Name: Rollno, dtype: int64)
SIR
       75
Name: cent_allot, dtype: int64
Nexgen Computer Education, Arts College Road, Near RTC Complex, SRIKAKULAM - 532
001
       75
```

```
Name: cent_add, dtype: int64
29-09-2020
30-09-2020
              37
Name: examDate, dtype: int64
3.0
       20
4.0
       20
1.0
       18
2.0
       17
Name: batch, dtype: int64
2:00PM
           20
4:30PM
           20
8:30AM
           18
11:00AM
           17
Name: rep_time, dtype: int64
```

## Stage One: Finalization of Candidate count

# [5]: #STUDENTS PER DISTRICT df=data.groupby("TH\_CENT\_CH").size().reset\_index(name="Candidates\_per\_CENTre") print(df)

	TH_CENT_CH	Candidates_per_CENTre
0	ADI	123
1	ANA	107
2	CTT	169
3	EGOD	84
4	GUN	198
5	KARN	196
6	KHAM	85
7	KPM	119
8	KRK	69
9	KRS	171
10	KUN	249
11	MAHB	289
12	MED	128
13	NALG	130
14	NEL	85
15	NIZA	73
16	PNI	1
17	PRA	145
18	PUD	70
19	SIR	80
20	SOA	84
21	TRI	107
22	VIJ	1
23	VIZ	150
24	VIZI	84
25	WGL	299

```
[6]: #ASSIGNING cent allot FOR STUDENTS
     df1=df[df["Candidates per CENTre"]>=100]
     HP_cols=list(df1["TH_CENT_CH"])
     print(HP_cols)
     df2=df[df["Candidates_per_CENTre"]<100]</pre>
     LP_cols=list(df2["TH_CENT_CH"])
     print(LP_cols)
     for x in data.index:
         if data.loc[x,"TH_CENT_CH"] in HP_cols:
             data.loc[x,"cent_allot"] = data.loc[x,"TH_CENT_CH"]
         elif data.loc[x,"TH_CENT_CH"] in LP_cols:
             data.loc[x,"cent_allot"] = data.loc[x,"SEC_TH_CEN"]
    ['ADI', 'ANA', 'CTT', 'GUN', 'KARN', 'KPM', 'KRS', 'KUN', 'MAHB', 'MED', 'NALG',
     'PRA', 'TRI', 'VIZ', 'WGL']
     ['EGOD', 'KHAM', 'KRK', 'NEL', 'NIZA', 'PNI', 'PUD', 'SIR', 'SOA', 'VIJ',
     'VIZI', 'WGOD']
[7]: data.head()
[7]:
                              D_O_B SEX H_Qual TH_CENT_CH SEC_TH_CEN CATEGORY \
        Application_ID
     0
                                       F
                                                        WGL
                9598673
                          9/13/1989
                                              Х
                                                                   KARN
                                                                             OBC
     1
                9657127
                          6/14/1989
                                           GRAD
                                                        WGL
                                                                  KARN
                                                                              ST
                                       Μ
                                                                   KARN
     2
                9657164 10/13/1989
                                       F
                                                        WGL
                                                                             GEN
                                           GRAD
     3
                          8/22/1985
                                                        WGL
                                                                  KARN
                                                                             OBC
                9657217
                                       Μ
                9657229
                          9/20/1991
                                       М
                                              Х
                                                        WGL
                                                                  KARN
                                                                             GEN
        Rollno cent_allot cent_add examDate
                                               batch rep_time
     0
           NaN
                       WGL
                                NaN
                                          {\tt NaN}
                                                  NaN
                                                           NaN
     1
           NaN
                       WGL
                                NaN
                                          NaN
                                                  NaN
                                                           NaN
     2
           NaN
                       WGL
                                NaN
                                          NaN
                                                  NaN
                                                           NaN
     3
           NaN
                       WGL
                                NaN
                                          NaN
                                                  NaN
                                                           NaN
     4
                       WGL
           NaN
                                NaN
                                          NaN
                                                  NaN
                                                           NaN
[8]: #STUDENTS PER CENTRE
     new_df=data.groupby("cent_allot").size().

¬reset_index(name="Candidates_per_CENTre")
     print(new_df)
       cent_allot
                    Candidates_per_CENTre
    0
               ADI
                                       123
               ANA
                                       107
    1
    2
               CTT
                                       254
    3
              EGOD
                                        52
    4
               GUN
                                       198
    5
              KARN
                                       269
```

```
6
           KPM
                                       119
7
           KRK
                                         1
                                      176
8
           KRS
9
           KUN
                                      249
                                      289
10
          MAHB
11
           MED
                                       128
12
          NALG
                                      130
13
           PBL
                                       84
14
           PNI
                                         4
15
                                       145
           PRA
           PRT
                                       64
16
17
           PUD
                                       69
18
           TRI
                                       108
19
           VIZ
                                      260
20
          VIZI
                                       54
21
           VLR.
                                         1
22
           WGL
                                      384
23
          WGOD
                                        84
```

#### Stage Two: Preparation of Database

```
[9]: data.sort_values("cent_allot",inplace=True) #SORTING W.R.T CENTRE ALLOTMENT
    data.reset_index(drop=True,inplace=True) #INDEXING TO GET PROPER INDEX AGAIN
    data.head()
```

```
[9]:
        Application_ID
                               D_O_B SEX H_Qual TH_CENT_CH SEC_TH_CEN CATEGORY \
                                                                  URHYD
     0
                9816073
                          4/20/2003
                                                         ADI
                                               Х
                                                                              OBC
     1
                9834311
                          3/26/1993
                                            GRAD
                                                         ADI
                                                                   NIZA
                                                                              OBC
                                       Μ
     2
                9838356
                         10/14/1999
                                       М
                                             XII
                                                         ADI
                                                                   NIZA
                                                                              GEN
                9834312
                          8/26/1993
                                            GRAD
                                                         ADI
                                                                   NIZA
     3
                                       Μ
                                                                              GEN
     4
                9834313 02-12-1983
                                       Μ
                                            GRAD
                                                         ADI
                                                                   NIZA
                                                                              OBC
        Rollno cent_allot cent_add examDate batch rep_time
           NaN
                       ADI
                                 NaN
                                                  NaN
     0
                                          NaN
                                                            NaN
     1
                       ADI
           NaN
                                 NaN
                                          NaN
                                                  NaN
                                                            NaN
     2
           NaN
                       ADI
                                 NaN
                                                            NaN
                                           NaN
                                                  NaN
     3
           NaN
                       ADI
                                 NaN
                                          NaN
                                                  NaN
                                                            NaN
     4
                       ADI
           NaN
                                 NaN
                                           NaN
                                                  NaN
                                                            NaN
```

```
[10]: #FILLING Rollno COLUMN
start=1
for x in data.index:
    data.loc[x,"Rollno"]="NL2000000"+str(start)
    start+=1
#FILLING cent_add COLUMN
data["cent_add"]= "NIELIT "+ data["cent_allot"]
```

### [11]: data.head(20)#FIRST 20 ROWS

[11]:	Application_ID	D_0_B	SEX	H_Qual	TH_CENT_CH	SEC_TH_CEN	CATEGORY	\
0	9816073	4/20/2003	F	Х	ADI	URHYD	OBC	
1	9834311	3/26/1993	M	GRAD	ADI	NIZA	OBC	
2	9838356	10/14/1999	M	XII	ADI	NIZA	GEN	
3	9834312	8/26/1993	M	GRAD	ADI	NIZA	GEN	
4	9834313	02-12-1983	M	GRAD	ADI	NIZA	OBC	
5	9834314	07-06-1999	M	XII	ADI	NIZA	OBC	
6	9816118	4/20/2002	F	Х	ADI	URHYD	OBC	
7	9838295	3/31/2003	F	XII	ADI	NIZA	OBC	
8	9838363	03-04-1986	M	GRAD	ADI	NIZA	OBC	
9	9812568	1/21/2004	M	Х	ADI	NIZA	ST	
10	9816112	04-11-2000	F	Х	ADI	URHYD	GEN	
11	9838271	01-01-1999	M	XII	ADI	NIZA	OBC	
12	9838263	6/18/2000	M	XII	ADI	NIZA	OBC	
13	9838249	07-05-1993	M	GRAD	ADI	NIZA	SC	
14	9838242	02-08-1996	M	XII	ADI	NIZA	OBC	
15	9838209	3/26/2002	M	Х	ADI	NIZA	OBC	
16	9832523	7/13/1994	F	GRAD	ADI	NIZA	OBC	
17	9838288	12/25/2003	M	Х	ADI	NIZA	OBC	
18	9832505	8/17/1995	M	GRAD	ADI	NIZA	OBC	
19	9838374	10/28/2003	F	XII	ADI	NIZA	OBC	
_	Rollno cent		_	dd exan		n rep_time		
0	NL2000001		LIT A		NaN Nal			
1	NL2000002		LIT A		NaN Nal			
2	NL2000003		LIT A		NaN Nal			
3	NL2000004		LIT A		NaN Nal			
4	NL2000005		LIT A		NaN Nal			
5	NL2000006		LIT A		NaN Nal			
6	NL2000007		LIT A		NaN Nal			
7	NL2000008		LIT A		NaN Nal			
8	NL2000009		LIT A		NaN Nal			
9	NL20000010		LIT A		NaN Nal			
10	NL20000011		LIT A		NaN Nal			
11	NL20000012		LIT A		NaN Nal			
12	NL20000013		LIT A		NaN Nal			
13	NL20000014		LIT A		NaN Nal			
14	NL20000015		LIT A		NaN Nal			
15	NL20000016		LIT A		NaN Nal			
16	NL20000017		LIT A		NaN Nal			
17	NL20000018		LIT A		NaN Nal			
18	NL20000019		LIT A		NaN Nal			
19	NL20000020	ADI NIE	LIT A	DI	NaN Nal	NaN		

[12]: data.tail(20)#LAST 20 ROWS

[12]:		Application_ID	D_0_B	SEX	H_Qual	TH_CENT_	_CH SEC	TH_CEN	CATEGORY	\
	3332	9763910	09-11-1988	M	UX	EC	GOD	WGOD	OBC	
	3333	9739704	06-10-1995	F	UX	EC	GOD	WGOD	GEN	
	3334	9739767	4/16/1998	F	GRAD	EC	GOD	WGOD	GEN	
	3335	9739835	1/18/2000	M	XII	EC	GOD	WGOD	GEN	
	3336	9739881	2/20/2000	F	XII	EC	GOD	WGOD	OBC	
	3337	9764028	01-01-1983	M	Х	EC	GOD	WGOD	GEN	
	3338	9739984	8/23/2001	F	XII	EC	GOD	WGOD	GEN	
	3339	9740692	01-01-1991	M	UX	EC	GOD	WGOD	GEN	
	3340	9740807	06-05-1994	F	GRAD	EC	GOD	WGOD	OBC	
	3341	9740982	06-04-2001	M	XII	EC	GOD	WGOD	OBC	
	3342	9741072	06-07-1995	F	GRAD	EC	GOD	WGOD	OBC	
	3343	9741167	01-01-1998	F	XII	EC	GOD	WGOD	OBC	
	3344	9741322	01-01-1986	F	GRAD	EC	GOD	WGOD	OBC	
	3345	9741467	1/16/1999	F	GRAD	EC	GOD	WGOD	OBC	
	3346	9741578	01-01-1988	F	UX	EC	GOD	WGOD	OBC	
	3347	9741716	4/17/1999	F	GRAD	EC	GOD	WGOD	GEN	
	3348	9764148	01-01-1998	F	Х	EC	GOD	WGOD	GEN	
	3349	9764143	1/28/1989	F	GRAD	EC	GOD	WGOD	GEN	
	3350	9740071	6/15/1991	F	XII	EC	GOD	WGOD	GEN	
	3351	9739614	07-08-1993	F	XII	EC	GOD	WGOD	GEN	
			nt_allot			examDate		-		
	3332	NL2000003333			WGOD	NaN	NaN			
	3333	NL2000003334			WGOD	NaN				
	3334	NL2000003335			WGOD	NaN				
	3335	NL2000003336			WGOD	NaN				
	3336	NL2000003337			WGOD	NaN	NaN			
	3337	NL2000003338			WGOD	NaN				
	3338	NL2000003339			WGOD	NaN	NaN			
	3339	NL2000003340			WGOD	NaN				
	3340	NL2000003341			WGOD	NaN				
	3341	NL2000003342		IELIT	WGOD	NaN				
	3342	NL2000003343			WGOD	NaN	NaN	Na		
	3343	NL2000003344			WGOD	NaN	NaN	Na		
	3344	NL2000003345			WGOD	NaN	NaN	Na		
	3345	NL2000003346		IELIT	WGOD	NaN	NaN	Na		
	3346	NL2000003347			WGOD	NaN	NaN	Na		
	3347	NL2000003348			WGOD	NaN	NaN	Na		
	3348	NL2000003349			WGOD	NaN	NaN	Na		
	3349	NL2000003350			WGOD	NaN	NaN	Na		
	3350	NL2000003351			WGOD	NaN	NaN	Na		
	3351	NL2000003352	WGOD N	IELIT	WGOD	NaN	NaN	Na	ιN	

[13]: #REPLACING WRONGLY FILLED VALUES WITH NULL VALUES data["examDate"].fillna(np.nan,inplace=True) data["batch"].fillna(np.nan,inplace=True)

```
data["rep_time"].fillna(np.nan,inplace=True)
[14]: data.head()
[14]:
                              D_O_B SEX H_Qual TH_CENT_CH SEC_TH_CEN CATEGORY \
         Application_ID
                9816073
                          4/20/2003
                                      F
                                              X
                                                       ADI
                                                                URHYD
                                                                           OBC
      0
                9834311
                          3/26/1993
                                      М
                                           GRAD
                                                       ADI
                                                                 NIZA
                                                                           OBC
      1
      2
                                           XII
                9838356 10/14/1999
                                      Μ
                                                       ADI
                                                                 NIZA
                                                                           GEN
      3
                          8/26/1993
                                           GRAD
                                                       ADI
                                                                 NIZA
                9834312
                                      Μ
                                                                           GEN
      4
                9834313 02-12-1983
                                           GRAD
                                                       ADI
                                                                 NIZA
                                                                           OBC
            Rollno cent_allot
                                 cent_add examDate batch rep_time
      0 NL2000001
                          ADI
                              NIELIT ADI
                                                NaN
                                                       NaN
                                                                NaN
      1 NL2000002
                          ADI NIELIT ADI
                                                NaN
                                                       NaN
                                                                NaN
      2 NL2000003
                          ADI NIELIT ADI
                                                NaN
                                                       NaN
                                                                {\tt NaN}
      3 NL2000004
                          ADI NIELIT ADI
                                                NaN
                                                       NaN
                                                                NaN
      4 NL2000005
                          ADI NIELIT ADI
                                                NaN
                                                       NaN
                                                                NaN
[15]: #FILLING batch COLUMN
      count_of_students=np.array(new_df["Candidates_per_CENTre"])
      print(count_of_students)
      count_of_students=np.cumsum(count_of_students)
      print(count_of_students)
      start=0
      count=0
      for x in count of students:
          for i in range(start,x):
              if count<20:
                  data.loc[i,"batch"]="1"
                  count+=1
              elif count>=20 and count<40 :
                  data.loc[i,"batch"]="2"
                  count+=1
              elif count==40:
                  data.loc[i,"batch"]="1"
                  count=0
          start=x
          count=0
     [123 107 254 52 198 269 119
                                     1 176 249 289 128 130 84
                                                                  4 145 64
      108 260 54
                    1 384 84]
     [ 123 230 484 536 734 1003 1122 1123 1299 1548 1837 1965 2095 2179
      2183 2328 2392 2461 2569 2829 2883 2884 3268 3352]
[16]: #FILLING rep_time COLUMN
      for x in data.index:
          if data.loc[x,"batch"]=="1":
```

```
data.loc[x,"rep_time"]="9 AM"
          if data.loc[x,"batch"]=="2":
              data.loc[x,"rep_time"]="2 PM"
[17]: #FILLING examDate COLUMN
      start=0
      count=0
      start_date=1
      for x in count_of_students:
          for i in range(start,x):
              if count<40:
                  data.loc[i,"examDate"]=str(start_date)+"/12/2020"
                  count+=1
              \#elif\ count>=20\ and\ count<40:
                  #data.loc[i, "batch"]="2"
                  \#count+=1
              elif count==40:
                  data.loc[i,"examDate"]=str(start_date+1)+"/12/2020"
                  start_date+=1
          start=x
          count=0
          start_date=1
[18]: data.head()
[18]:
         Application_ID
                              D_O_B SEX H_Qual TH_CENT_CH SEC_TH_CEN CATEGORY \
      0
                9816073
                          4/20/2003
                                      F
                                             Х
                                                       ADI
                                                                URHYD
                                                                           OBC
      1
                9834311
                          3/26/1993
                                      М
                                          GRAD
                                                       ADI
                                                                 NIZA
                                                                           OBC
      2
                9838356 10/14/1999
                                           XII
                                                       ADI
                                                                 NIZA
                                                                           GEN
                                      Μ
      3
                9834312
                          8/26/1993
                                          GRAD
                                                       ADI
                                                                 NIZA
                                                                           GEN
                9834313 02-12-1983
                                          GRAD
                                                       ADI
                                                                 NIZA
                                                                           OBC
            Rollno cent_allot
                                 cent_add
                                            examDate batch rep_time
                          ADI NIELIT ADI 1/12/2020
      0 NL2000001
                                                                9 AM
                                                          1
      1 NL2000002
                          ADI NIELIT ADI 1/12/2020
                                                          1
                                                                9 AM
      2 NL2000003
                          ADI NIELIT ADI 1/12/2020
                                                                9 AM
                                                          1
      3 NL2000004
                          ADI NIELIT ADI 1/12/2020
                                                          1
                                                                9 AM
      4 NL2000005
                          ADI NIELIT ADI 1/12/2020
                                                                9 AM
                                                          1
[19]: data.examDate.dtype
[19]: dtype('0')
[20]: #CHANGING TO DATATIME FORMAT
      data["examDate"]=pd.to_datetime(data["examDate"]).dt.strftime('%d-%m-%Y')
      data["examDate"] = pd.to_datetime(data["examDate"]).dt.strftime('%d-%m-%Y')
```

# [21]: data.head(50)

[21]:	Application_ID	D_0_B	SEX	H_Qual	TH_CENT_CH	SEC_TH_CEN	CATEGORY	\
0	9816073	4/20/2003	F	Х	ADI	URHYD	OBC	
1	9834311	3/26/1993	M	GRAD	ADI	NIZA	OBC	
2	9838356	10/14/1999	M	XII	ADI	NIZA	GEN	
3	9834312	8/26/1993	M	GRAD	ADI	NIZA	GEN	
4	9834313	02-12-1983	M	GRAD	ADI	NIZA	OBC	
5	9834314	07-06-1999	M	XII	ADI	NIZA	OBC	
6	9816118	4/20/2002	F	Х	ADI	URHYD	OBC	
7	9838295	3/31/2003	F	XII	ADI	NIZA	OBC	
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