

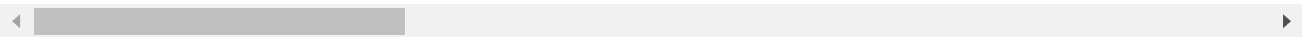
```
In [1]: import pandas as pd
df = pd.read_csv('Vacancy.csv')
```

```
In [2]: df
```

Out[2]:

	EMIS	School Name	Gender	Assistant_total	Assistant_vacant	Assistant_fill
0	34210001	GHSS PUBLIC KUNJAH	Male	0	0	
1	34210002	GHSS TANDA	Male	0	0	
2	34210003	GHS ZAMINDAR GUJRAT	Male	0	0	
3	34210004	GHS COMPREHENSIVE GUJRAT	Male	0	0	
4	34210005	GHS MUSLIM GUJRAT	Male	0	0	
...	...	...	...	...	...	
341	34230104	GGHS SIMBLI	Female	0	0	
342	34230113	GGHS BHAWANJ	Female	0	0	
343	34230142	GGHS FATEH PUR	Female	0	0	
344	34230161	GGMHS SHEIKH PUR DAKHLI	Female	0	0	
345	34230166	GGCMHS BHALWAL GHARBI	Female	0	0	

346 rows × 84 columns



```
In [88]: vacant_col = [col for col in df.columns if 'vacant' in col and df[col].sum() != vacant_col]
```

```
Out[88]: ['Assistant_vacant',
          'Bulavi_vacant',
          'Chowkidar/ S.G_vacant',
          'Class-IV_vacant',
          'Head Clerk_vacant',
          'I.T. Comp. Lab. Incharge_vacant',
          'Jr. Clerk_vacant',
          'Lab. Assistant_vacant',
          'Lab. Attendant_vacant',
          'Lab. Incharge_vacant',
          'Lecturer Assistant_vacant',
          'Librarian_vacant',
          'Library Assistant_vacant',
          'Library Attendant_vacant',
          'Library Clerk_vacant',
          'Mali_vacant',
          'Naib Qasid_vacant',
          'School Guard_vacant',
          'Store Keeper_vacant',
          'Sweeper_vacant',
          'Waterman_vacant']
```

```
In [89]: selected_col = list(df.columns[:3])+vacant_col
          selected_col
```

```
Out[89]: ['EMIS',
          'School Name',
          'Gender',
          'Assistant_vacant',
          'Bulavi_vacant',
          'Chowkidar/ S.G_vacant',
          'Class-IV_vacant',
          'Head Clerk_vacant',
          'I.T. Comp. Lab. Incharge_vacant',
          'Jr. Clerk_vacant',
          'Lab. Assistant_vacant',
          'Lab. Attendant_vacant',
          'Lab. Incharge_vacant',
          'Lecturer Assistant_vacant',
          'Librarian_vacant',
          'Library Assistant_vacant',
          'Library Attendant_vacant',
          'Library Clerk_vacant',
          'Mali_vacant',
          'Naib Qasid_vacant',
          'School Guard_vacant',
          'Store Keeper_vacant',
          'Sweeper_vacant',
          'Waterman_vacant']
```

```
In [71]: df.loc[:,selected_col].shape
```

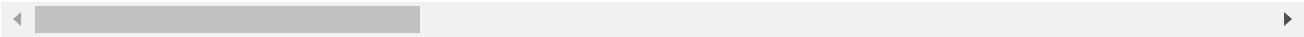
```
Out[71]: (346, 24)
```

```
In [90]: vpBySchool = df.loc[df[vacant_col].gt(0).any(axis=1), selected_col]
          vpBySchool
```

Out[90]:

	EMIS	School Name	Gender	Assistant_vacant	Bulavi_vacant	Chowkidar/ S.G_vacant
1	34210002	GHSS TANDA	Male	0	0	0
2	34210003	GHS ZAMINDAR GUJRAT	Male	0	0	0
3	34210004	GHS COMPREHENSIVE GUJRAT	Male	0	0	0
6	34210007	GHS ISLAMIA GUJRAT	Male	0	0	0
8	34210009	GHSS KATHALA CHENAB	Male	0	0	0
...	...	...	...	...	...	...
338	34230035	GGHS Baisa Kalan	Female	0	0	0
339	34230038	GGHS QASBA KARYALI	Female	0	1	0
341	34230104	GGHS SIMBLI	Female	0	0	0
342	34230113	GGHS BHAWANJ	Female	0	1	0
344	34230161	GGMHS SHEIKH PUR DAKHLI	Female	0	0	0

243 rows × 24 columns



```
In [86]: vpBySchool.iloc[:,3:].sum()
```

```
Out[86]: Assistant_vacant      3.0
        Bulavi_vacant        27.0
        Chowkidar/ S.G_vacant  65.0
        Class-IV_vacant       49.0
        Head Clerk_vacant      1.0
        I.T. Comp. Lab. Incharge_vacant  9.0
        Jr. Clerk_vacant      114.0
        Lab. Assistant_vacant   3.0
        Lab. Attendant_vacant  60.0
        Lab. Incharge_vacant    2.0
        Lecturer Assistant_vacant 23.0
        Librarian_vacant        9.0
        Library Assistant_vacant  3.0
        Library Attendant_vacant  6.0
        Library Clerk_vacant    10.0
        Mali_vacant            20.0
        Naib Qasid_vacant      59.0
        School Guard_vacant     5.0
        Store Keeper_vacant     1.0
        Sweeper_vacant         44.0
        Waterman_vacant         3.0
        Total                   0.0
        dtype: float64
```

```
vpBySchool["Total"] = vpBySchool.iloc[:,3:].sum()
```

```
In [77]: condition = vpBySchool['Sweeper_vacant']>0
```

```
In [81]: vpBySchool.loc[condition,list(vpBySchool.columns[:3])+['Sweeper_vacant']]
```

Out[81]:

	EMIS	School Name	Gender	Sweeper_vacant
1	34210002	GHSS TANDA	Male	1
6	34210007	GHS ISLAMIA GUJRAT	Male	1
10	34210011	GHS LAKHAN WAL	Male	1
11	34210012	GHS MOIN UD DIN PUR	Male	1
17	34210018	GHS ISLAMIA NO.1 JALALPUR JATTAN	Male	1
20	34210021	GHS TALEEM-UD-DIN J.P.JATTAN	Male	1
24	34210025	GHS ALAMGARH	Male	1
26	34210027	GHS BAKHRI WALI	Male	1
36	34210037	GHS FATEH PUR	Male	1
51	34210052	GHS MANGOWAL WEST	Male	1
55	34210056	GHS THATTA POUR	Male	1
61	34210062	GHS MALHU KHOKHAR	Male	1
62	34210063	GHS DAULAT NAGAR	Male	1
84	34210087	GGHS ISLAMIA KUNJAH	Female	1
91	34210094	GGHS SULTAN BUKISH GUJRAT	Female	1
94	34210097	GGHS KAMLI WALA GUJRAT	Female	1
95	34210098	GGHS MUSLIM PARDA GUJRAT	Female	1
98	34210101	GGHS MACHIWAL	Female	1
131	34210152	GGHS PERO SHAH	Female	1
161	34210195	GGHS TIBBI GORIAN	Female	1
185	34220004	GHS KHARIAN	Male	1
190	34220009	GHSS AMRA KALAN	Male	1
199	34220018	GHS TECHNICAL PANAJAN KASANA	Male	1
200	34220019	GHS BAHARWAL	Male	1
203	34220022	GHS DILAWAR PUR	Male	1
217	34220036	GHS KAKRALI	Male	1
221	34220040	GHS CHAKORI BHELOWAL	Male	1
229	34220048	GHS THEKRIAN MONIAN	Male	1
239	34220058	GGHSS THATHA RAI BAHADUR	Female	1
245	34220064	GGHS CHANNAN	Female	1
247	34220066	GGHS PINDI SULTAN PUR	Female	1
249	34220068	GGHS M.B.LALAMUSA	Female	1
250	34220069	GGHS PANJAN KASANA	Female	1

	EMIS	School Name	Gender	Sweeper_vacant
291	34220144	GGHS CHACHIAN	Female	1
295	34220273	GHS NOOR JAMAL NORTH	Male	1
303	34220800	GHSS MODEL (ATTACH WITH QAED (M) LALAMUSA)	Male	2
306	34220809	GGHSS EXCELLENT (ATTACHED WITH QAED) LALAMUSA.	Female	2
308	34220811	GHSS BAGIRAN WALA	Male	1
319	34230009	GHSS ISLAMIA DANDI NIZAM	Male	1
324	34230014	GHS PIR KHANA	Male	1
338	34230035	GGHS Baisa Kalan	Female	1
344	34230161	GGMHS SHEIKH PUR DAKHLI	Female	1

```
In [87]: vpBySchool.iloc[:,3:].sum()
```

```
Out[87]: Assistant_vacant      3.0
Bulavi_vacant      27.0
Chowkidar/ S.G_vacant      65.0
Class-IV_vacant      49.0
Head Clerk_vacant      1.0
I.T. Comp. Lab. Incharge_vacant      9.0
Jr. Clerk_vacant      114.0
Lab. Assistant_vacant      3.0
Lab. Attendant_vacant      60.0
Lab. Incharge_vacant      2.0
Lecturer Assistant_vacant      23.0
Librarian_vacant      9.0
Library Assistant_vacant      3.0
Library Attendant_vacant      6.0
Library Clerk_vacant      10.0
Mali_vacant      20.0
Naib Qasid_vacant      59.0
School Guard_vacant      5.0
Store Keeper_vacant      1.0
Sweeper_vacant      44.0
Waterman_vacant      3.0
Total      0.0
dtype: float64
```

```
In [ ]:
```