

```
In [1]: import pandas as pd

In [2]: from matplotlib import pyplot as plt
```

```
In [26]: order_data=pd.read_csv('result.csv')
```

```
In [27]: order_data
```

Out[27]:		order_id	email	first_name	last_name	address	city	province	postal	phone1	web	status	date
	0	AB102	lourdes_bauswell@aol.com	Lourdes	Bauswell	9547 Belmont Rd #21	Belleville	ON	K8P 1B3	613-903-7043	http://www.oklahomaneoninc.com	success	23-01-2021
	1	AB104	hui_portaro@cox.net	Hui	Portaro	3 Mill Rd	Baker Brook	NB	E7A 1T3	506-827-7755	http://www.astorageinnofgloucester.com	success	23-01-2021
	2	AB105	lsteinhaus@cox	Lea	Steinhaus	80 Maplewood Dr #34	Bradford	ON	L3Z 2S4	905-618-8258	http://www.jameschristophersq.com	hold	13-09-2021
	3	AB109	crissy@aol.com	Crissy	Pacholec	85 S State St	Barrie	ON	L4N 6T7	705-477-2307	http://www.cgisystemsinc.com	success	1/5/2020
	4	AB172	dahlia_benett@aol.com	Dahlia	Benett	3986 Home Life	Alma	QC	G8B 1K7	418-344-9993	http://www.docoschoolemplfedcrdtun.com	success	12/10/2021
	5	AB186	margurite.brake@yahoo.com	Margurite	Brake	258 S Ash Ave	Amherstburg	ON	N9V 1S8	519-476-5983	http://www.moyerdavidwesq.com	success	14-03-2021
	6	AB191	carol@gmail.com	Carol	Normington	1 S Kresson St	Alma	QC	G8E 1G2	418-540-2207	http://www.westwoodspecialties.com	success	9/8/2021
	7	AB194	speadcox.net	Sarina	Pead	7821 16th St Nw	Ajax	ON	L1S 1S7	905-696-6221	http://www.burgessmanninginc.com	hold	5/7/2021
	8	AB257	avery.mass@hotmai.com	Avery	Masso	6 Central Ave #664	Amherst	NS	B4H 1N1	902-588-8947	http://www.farwesternrophyawards.com	success	2/2/2021
	9	AB265	lfrisinger@cox.net	Lasandra	Frisinger	1 Highway 71 S	Abbotsford	BC	L1S 2G5	604-210-7413	http://www.jmrmarketinggraphicscorp.com	hold	13-07-2021
	10	AB287	lavina.michelet@michelet.org	Lavina	Michelet	2719 N Delaware St	Anjou	QC	H1M 1X5	514-842-3549	http://www.environmentaldataresources.com	success	17-01-2020
	11	AB301	brice_rowe@aol.com	Brice	Rowe	5 New Circle Rd Ne	Belleville	ON	K8N 1R9	613-631-9322	http://www.marylandmatchcorp.com	success	16-11-2021
	12	AB302	example@example.com	Janae	Mair	8 S Mcmullen Dr #38	Ajax	ON	L1T 1R5	905-501-5086	http://www.parkavenueaudioinc.com	success	26-12-2021
	13	AB337	marleen_hennon@aol.com	Marleen	Hennon	2863 Brooklyn Terminal Mkt	Abbotsford	BC	V2S 4M2	604-545-3662	http://www.welschmetalproductsinc.com	success	29-09-2021
	14	AB350	ddobler@dobler.com	Daniel	Dobler	259 W 17th St #39	Beresford	NB	E8K 1B7	506-617-2607	http://www.cosgrovesnendplbgdwrco.com	success	29-09-2021
	15	BC001	kloud@gmail.com	Kendra	Loud	6 Arch St #9757	Alcida	NB	E8J 2C4	506-363-1526	http://www.deloittetouche.com	success	11/11/2021
	16	BC005	paola_vielma@aol.com	Paola	Vielma	58 Hancock St	Aurora	ON	L4G 2J7	905-456-1117	http://www.congresstitle.com	success	9/8/2021

order_id		email	first_name	last_name	address	city	province	postal	phone1		web	status	date
17	BC016	dell_polino@polino.com	Dell	Polino	56 Corporate Dr	Becancour	QC	G9H 1H7	819-255-1725	http://www.saintjohnneumannnursehome.com		success	28-03-2020
18	BC022	carole_hughlett@hughlett.com	Carole	Hughlett	9 N Central Ave	Abbotsford	BC	V2S 5R3	604-262-8556	http://www.kolodnyhowardseq.com		success	31-12-2020
19	BC029	salina.knavel@gmail.com	Salina	Knavel	4 Newark St	Arnprior	ON	K7S 2G8	613-280-7170	http://www.schillerosbourn.com		success	4/9/2021
20	BC032	agustin.lakatos@gmaail.com	Agustin	Lakatos	23 E Wacker Dr #64	Becancour	QC	G9H 4T4	819-365-5394	http://www.thrasherjohneesq.com		hold	19-07-2021
21	BC039	darell_mcalarney@mcalarney.com	Darell	Mcalarney	8 E 92nd St	Ajax	ON	L1S 6V3	905-846-7737	http://www.janneymontgomeryscottinc.com		success	8/1/2021
22	BC045	lazaro@gmail.com	Lazaro	Mollison	31 E Middlefield Rd #8555	Beloeil	QC	J3G 3G5	450-356-6427	http://www.uniteddrillinginc.com		hold	14-12-2021
23	BC047	nadine_swartzbeck@swartzbeck.org	BC047	Swartzbeck	3 Federal Blvd	Beloeil	QC	J3G 4M4	450-353-2331	http://www.contactenterprises.com		success	17-02-2021
24	BC060	cscotts@aol.com	Colby	Scotts	7 E 1st St	Barrie	ON	L4N 3M9	705-668-5094	http://www.masshumanservicescoalition.com		success	24-04-2021
25	BC101	tayna_keirnan@gmail.com	Tanya	Keirnan	18 Cowesett Ave	Barrie	ON	F4N 5C5	705-655-5936	http://www.hartzjernestesq.com		hold	18-02-2021
26	BC104	long.shintaku@shintaku.org	Long	Shintaku	8 W 41st Ave	Blainville	QC	J7C 2R9	450-771-5010	http://www.georgetownagency.com		success	10/3/2021
27	BC127	bdewer@gmail.com	Barney	Dewer	88 Norris Ave #2	Bedford	NS	B4A 3V5	902-287-1148	http://www.anthonyrichardseq.com		success	4/12/2021
28	BC130	yvette.capiga@yahoo.com	Yvette	Capiga	33 Broadway St #8539	Big Valley	AB	T0J 0G0	403-919-6456	http://www.stierbrianeesq.com		success	10/8/2021
29	BC132	valene@madson.org	Valene	Madson	42 Main St	Alma	QC	G8B 7M5	418-646-3844	http://www.hjheinzfldofcdistrbctr.com		success	5/6/2021
30	BC134	kdizin@aol.com	Kenneth	Drizin	2 Scott Blvd	Amos	QC	J9T 1S3	819-999-6396	http://www.packagingcorpofamerica.com		success	8/12/2020
31	BC145	anjelica@lovero.org	Anjelica	Lovero	689 S Steele St #1887	Amherst	NS	B4H 1K5	902-386-1443	http://www.daytonappliancepartsco.com		success	7/5/2021
32	BC179	dion_lamastuslamastus.com	Dion	Lamastus	44 S Highland Dr	Albanel	QC	G8M 3P2	418-212-6756	http://www.nationalcompugraphixinc.com		hold	4/12/2020
33	BC184	rwetherby@wetherby.org	Rochell	Wetherby	142 E 57th Ave #2	Amqui	QC	G5J 1E2	418-362-9768	http://www.imgsceneinternetmultimedia.com		success	5/2/2021
34	BC190	wenona.braseth@braseth.org	Wenona	Braseth	7 Ramon Rd	Beloeil	QC	J3G 2C1	450-751-1928	http://www.weinbrendonbesq.com		success	11/10/2021
35	BC202	dmakley@yahoo.com	Darrel	Makley	6 N Volusia Ave #2	Baie-Sainte-Anne	NB	E9A 1P1	506-839-5378	http://www.alliedsignalengines.com		success	9/1/2021
36	BC204	alison_mahlum@hotmail.com	Alison	Mahlum	841 N Monroe St	Belleville	ON	K8N 2W3	613-862-3122	http://www.walterjeromeinc.com		success	17-05-2021
37	BC214	coral.brennick@brennick.com	Coral	Brennick	15 Ludlow Ave #156	Boucherville	QC	J4B	450-480-7421	http://www.barbourmichaeljesq.com		hold	31-12-2021
38	BC228	dmathiasen@hotmail.com	Darrin	Mathiasen	35 Peconic Ave #4	Boucherville	QC	J4B 3Y4	450-536-7426	http://www.miltondailystandard.com		success	18-02-2021

In [22]: `order_data.describe()`

Out[22]:

	order_id	email	first_name	last_name	address	city	province	postal	phone1		web	status	date
count	39	39	39	39	39	39	39	39	39		39	39	39
unique	39	39	39	39	39	24	6	39	39		39	3	35
top	BC022	hui_portaro@cox.net	Carol	Mcalarney	1 Highway 71 S	Barrie	QC	L1S 2G5	705-655-5936	http://www.burgessmanninginc.com	success	18-02-2021	
freq	1	1	1	1	1	3	15	1	1		1	30	2

In [23]: `hold_count = order_data.status[order_data.status == 'hold'].count()`

In [57]: `print("Number of hold = {}".format(hold_count))`

Number of hold = 8

In [33]: `success_count = order_data.status[order_data.status == 'success'].count()`

In [58]: `print("Number of Success = {}".format(success_count))`

Number of Success = 31

In [13]: `!pip install seaborn --upgrade --quiet`

WARNING: You are using pip version 20.2; however, version 21.3 is available.
You should consider upgrading via the 'c:\users\lenovo\anaconda3\python.exe -m pip install --upgrade pip' command.

In [15]: `from matplotlib import pyplot as plt`
`import seaborn as sns`
`%matplotlib inline`

In [29]: `order_data['date'] = pd.to_datetime(order_data.date)`

In [30]: `order_data['year'] = pd.DatetimeIndex(order_data.date).year`
`order_data['month'] = pd.DatetimeIndex(order_data.date).month`
`order_data['day'] = pd.DatetimeIndex(order_data.date).day`
`order_data['weekday'] = pd.DatetimeIndex(order_data.date).weekday`

In [49]: `order_month_df = order_data.groupby('month')['status'].count()`

In [50]: `order_month_df`

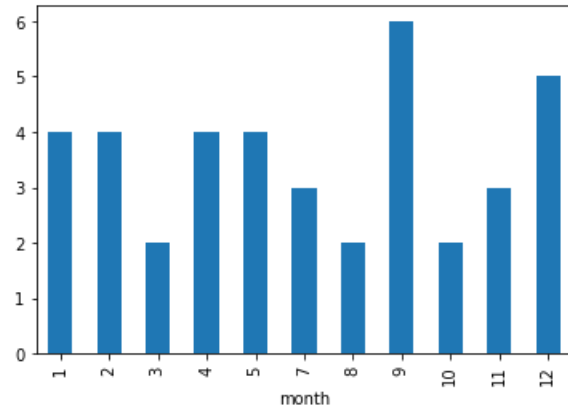
Out[50]:

	status
month	
1	4
2	4

status

month	
3	2
4	4
5	4
7	3
8	2
9	6
10	2
11	3
12	5

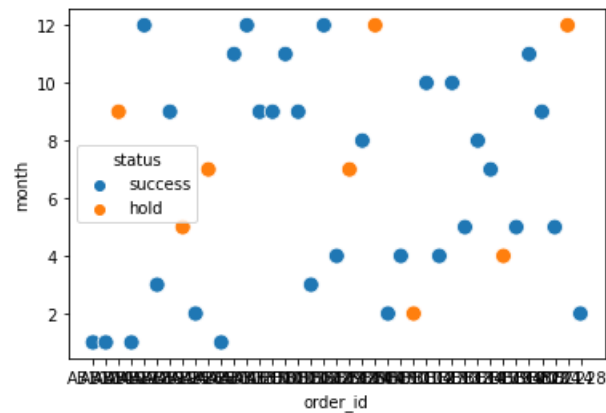
```
In [51]: order_month_df.status.plot(kind='bar');
```



```
In [70]: print("The above graph the total number of orders in each month.")
```

The above graph the total number of orders in each month.

```
In [68]: sns.scatterplot(x=order_data.order_id, y=order_data.month, hue=order_data.status, s=100);
```



```
In [71]: print("Graph shows the visual representation of order in the given month.")
```

Graph shows the visual representation of order in the given month.

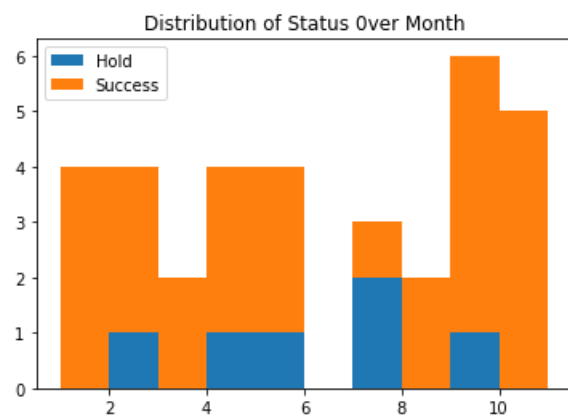
```
In [69]: hold_df = order_data[order_data.status == 'hold']
success_df = order_data[order_data.status == 'success']
```

```
In [61]: import numpy as np
```

```
In [64]: plt.title('Distribution of Status Over Month')

plt.hist([hold_df.month, success_df.month],
        bins=np.arange(1, 12,1),
        stacked=True);

plt.legend(['Hold', 'Success']);
```



```
In [72]: print("The graph shows the hold and success status of all the orders in the given month.")
```

The graph shows the hold and success status of all the orders in the given month.

```
In [100... nbconvert --to latex --no-input data_chart.ipynb
```

```
File "<ipython-input-100-029863643d7f>", line 1
nbconvert --to latex --no-input data_chart.ipynb
      ^
```

SyntaxError: invalid syntax

In []: