

What are all different subjects for which udemy is offering courses?

In [5]:	data.subject.unique()										
Out[5]:	array(['Musical Instruments', 'Business Finance', 'Graphic Design', 'Web Development'], dtype=object)										

which subject has the max. no. of courses?

```
5      28
2      27
4      26
...
2516    1
469      1
2520      1
4569      1
18189     1
Name: num_subscribers, Length: 2198, dtype: int64
```

Show all the courses which are free of cost.

```
In [9]: #data[data.is_paid==False]
```

```
In [10]: data.head(1)
```

	course_id	course_title	is_paid	price	num_subscribers	num_reviews	num_lectures	level	content_duration	published_timestamp	subject
0	288942	#1 Piano Hand Coordination: Play 10th Ballad L...	True	35	3137	18	68	All Levels	1.5 hours	2014-09-18T05:07:05Z	Musical Instruments

```
In [11]: data.is_paid==False
```

```
Out[11]:
0      False
1      False
2      False
3      False
4      False
```

Show all the courses which are free of cost.

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Show all the courses which are paid.

	1	1170074	#10 Hand Coordination - Transfer Chord Ballad ...	True	75	1593	1	41	Intermediate Level	1 hour	2017-04-12T19:06:34Z	Musical Instruments
	2	1193886	#12 Hand Coordination: Let your Hands dance w...	True	75	482	1	47	Intermediate Level	1.5 hours	2017-04-26T18:34:57Z	Musical Instruments
	3	1116700	#4 Piano Hand Coordination: Fun Piano Runs in ...	True	75	850	3	43	Intermediate Level	1 hour	2017-02-21T23:48:18Z	Musical Instruments
	4	1120410	#5 Piano Hand Coordination: Piano Runs in 2 ...	True	75	940	3	32	Intermediate Level	37 mins	2017-02-21T23:44:49Z	Musical Instruments

	3676	498488	Your First Successful Forex Trades - With Case...	True	200	1079	34	16	All Levels	2.5 hours	2015-05-26T20:48:48Z	Business Finance
	3677	328960	Your Own Site in 45 Min: The Complete Wordpress...	True	120	1566	29	36	All Levels	4 hours	2015-04-20T22:15:17Z	Web Development
	3678	552700	Your Second Course on Piano: Two Handled Playing	True	70	1018	12	22	Beginner Level	5 hours	2015-10-26T20:04:21Z	Musical Instruments
	3679	631754	Zend Framework 2: Learn the PHP framework ZF2 ...	True	40	723	130	37	All Levels	6.5 hours	2015-11-11T18:55:45Z	Web Development
	3681	964478	Zombie Apocalypse Photoshop Actions	True	50	12	1	15	All Levels	1.5 hours	2016-09-26T22:19:48Z	Graphic Design

3372 rows × 11 columns

Which are top selling courses?

The top selling courses are those which has the max no. of subscriber

```
In [20]: #data.sort_values('num_subscribers',ascending=False)
```

Which are top selling courses?

The top selling courses are those which has the max no. of subscriber

In [18]:

data.sort_values('num_subscribers')

Out[18]:

	course_id	course_title	is_paid	price	num_subscribers	num_reviews	num_lectures	level	content_duration	published_timestamp	subject
649	1233314	Building a Balanced Scorecard	True	50	0	0	11	Intermediate Level	2 hours	2017-07-03T21:38:22Z	Business Finance
3259	1232282	The Cash Flow Statement - An Introduction	True	50	0	0	10	Beginner Level	1.5 hours	2017-06-28T16:05:51Z	Business Finance
3261	1275872	The Complete Adobe Spark Course	True	150	0	0	29	All Levels	2 hours	2017-07-03T17:39:57Z	Graphic Design
910	726314	Create Beautiful Image Maps for Your Website	True	20	0	0	8	Intermediate Level	37 mins	2016-01-18T17:56:36Z	Graphic Design
3328	715476	The Cuckoo Strategy to get European Funding	True	160	0	0	6	All Levels	1 hour	2016-01-06T02:38:23Z	Business Finance
...
3316	764164	The Complete Web Developer Course 2.0	True	200	114512	22412	304	All Levels	30.5 hours	2016-03-08T22:28:36Z	Web Development
640	173548	Build Your First Website in 1 Week with HTML5 ...	False	Free	120291	5924	30	Beginner Level	3 hours	2014-04-08T16:21:30Z	Web Development
3385	625204	The Web Developer Bootcamp	True	200	121584	27445	342	All Levels	43 hours	2015-11-02T21:13:27Z	Web Development
776	59014	Coding for Entrepreneurs Basic	False	Free	161029	279	27	Beginner Level	3.5 hours	2013-06-09T15:51:55Z	Web Development
2230	41295	Learn HTML5 Programming From Scratch	False	Free	268923	8629	45	All Levels	10.5 hours	2013-02-14T07:03:41Z	Web Development

3682 rows × 11 columns

In [19]:

data.sort_values('num_subscribers',ascending=False)

Out[19]:

	course_id	course_title	is_paid	price	num_subscribers	num_reviews	num_lectures	level	content_duration	published_timestamp	subject
2230	41295	Learn HTML5 Programming From Scratch	False	Free	268923	8629	45	All Levels	10.5 hours	2013-02-14T07:03:41Z	Web Development
776	59014	Coding for Entrepreneurs Basic	False	Free	161029	279	27	Beginner Level	3.5 hours	2013-06-09T15:51:55Z	Web Development

776	59014	Coding for Entrepreneurs basic	False	Free	161029	279	27	Beginner Level	3.5 hours	2013-06-09T15:51:55Z	Web Development
3385	625204	The Web Developer Bootcamp	True	200	121584	27445	342	All Levels	43 hours	2015-11-02T21:13:27Z	Web Development
640	173548	Build Your First Website in 1 Week with HTML5 ...	False	Free	120291	5924	30	Beginner Level	3 hours	2014-04-08T16:21:30Z	Web Development
3316	764164	The Complete Web Developer Course 2.0	True	200	114512	22412	304	All Levels	30.5 hours	2016-03-08T22:28:36Z	Web Development
...
2290	1223240	Learn Pirates of the Caribbean by Ear on the P...	True	20	0	0	6	All Levels	32 mins	2017-05-22T17:14:43Z	Musical Instruments
1267	1258666	Financial Statement Auditing Cycles	True	50	0	0	9	Intermediate Level	2 hours	2017-06-29T23:20:10Z	Business Finance
2070	1215926	Kickstarter success in 5 easy steps	True	20	0	0	12	All Levels	31 mins	2017-05-16T14:55:28Z	Business Finance
1931	1247992	Introduction to Project Management for Finance...	True	50	0	0	9	Beginner Level	2 hours	2017-07-03T21:40:32Z	Business Finance
3165	1087466	Stop Creditors from Harassing you and Avoid Ba...	True	20	0	0	7	Beginner Level	37 mins	2017-02-02T16:22:37Z	Business Finance

3682 rows × 11 columns

Which are the least selling courses?

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In [21]: data.sort_values('num_subscribers')
```

```
Out[21]:
```

```
In [22]: data.sort_values('num_subscribers')
```

```
Out[22]:
```

	course_id	course_title	is_paid	price	num_subscribers	num_reviews	num_lectures	level	content_duration	published_timestamp	subject
649	12323314	Building a Balanced Scorecard	True	50	0	0	11	Intermediate Level	2 hours	2017-07-03T21:38:22Z	Business Finance
3259	1232282	The Cash Flow Statement - An Introduction	True	50	0	0	10	Beginner Level	1.5 hours	2017-06-28T16:05:51Z	Business Finance

Which are the least selling courses?

In [21]:	#data.sort_values('num_subscribers')		
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