

```
In [1]: import pandas as pd  
df=pd.read_csv(r"D:\Documents\python\projects\Udemy.csv", index_col=0)  
df
```

Out[1]:

	course_title	is_paid	price	num_subscribers	num_reviews	num_lectures	
course_id							
288942	#1 Piano Hand Coordination: Play 10th Ballad i...	True	35	3137	18	68	Al
1170074	#10 Hand Coordination - Transfer Chord Ballad ...	True	75	1593	1	41	Intern
1193886	#12 Hand Coordination: Let your Hands dance wi...	True	75	482	1	47	Intern
1116700	#4 Piano Hand Coordination: Fun Piano Runs in ...	True	75	850	3	43	Intern
1120410	#5 Piano Hand Coordination: Piano Runs in 2 ...	True	75	940	3	32	Intern
...
328960	Your Own Site in 45 Min: The Complete Wordpres...	True	120	1566	29	36	Al
552700	Your Second Course on Piano: Two Handed Playing	True	70	1018	12	22	Be
631754	Zend Framework 2: Learn the PHP framework ZF2 ...	True	40	723	130	37	Al
1225194	Zoho Books Gestion Financière	False	Free	229	0	33	Al

	course_title	is_paid	price	num_subscribers	num_reviews	num_lectures	
course_id	d'Entreprise pas...						
964478	Zombie Apocalypse Photoshop Actions	True	50	12	1	15	AI

3682 rows × 10 columns

In [2]: `df.columns`

Out[2]: Index(['course_title', 'is_paid', 'price', 'num_subscribers', 'num_reviews', 'num_lectures', 'level', 'content_duration', 'published_timestamp', 'subject'], dtype='object')

In [4]: `print(f"The different subjects for which Udemy is offering courses is \n ",df.subject`

The different subjects for which Udemy is offering courses is
 ['Musical Instruments' 'Business Finance' 'Graphic Design'
 'Web Development']

In [5]: `print(f"The subject that has the maximum number of courses is \n",df.subject.value_`

The subject that has the maximum number of courses is
 subject
 Web Development 1200
 Business Finance 1199
 Musical Instruments 680
 Graphic Design 603
 Name: count, dtype: int64

In [6]: `print(f"The courses which are 'Free of Cost ' are \n",df[df.is_paid==False])`

The courses which are 'Free of Cost ' are

course_id	course_title	is_paid	price \
286070	5 lecciones que todo guitarrista debe tomar	False	Free
696630	7 Ways A Beginner Guitarist Can Sound Better, ...	False	Free
955914	A beginner`s guide to fingerpicking and strumm...	False	Free
270976	A how to guide in HTML	False	Free
1214144	¡Triunfar en La Bolsa de Valores No Requiere d...	False	Free
...
552598	WordPress in under an hour - Create/manage you...	False	Free
1068590	Wordpress Website Mastery 2017	False	Free
752706	Write quicker HTML5 and CSS 3; productivity ha...	False	Free
1257976	Your First 10 Guitar Lessons - Learn how to pl...	False	Free
1225194	Zoho Books Gestion Financière d'Entreprise pas...	False	Free

course_id	num_subscribers	num_reviews	num_lectures	level \
286070	4452	263	14	Beginner Level
696630	4529	193	7	Beginner Level
955914	3481	29	20	Beginner Level
270976	7318	205	8	Beginner Level
1214144	338	7	6	Beginner Level
...
552598	6474	86	15	All Levels
1068590	5181	64	22	Beginner Level
752706	13016	286	15	All Levels
1257976	924	4	18	Beginner Level
1225194	229	0	33	All Levels

course_id	content_duration	published_timestamp	subject
286070	1 hour	2014-08-23T05:08:14Z	Musical Instruments
696630	36 mins	2015-12-21T18:50:50Z	Musical Instruments
955914	2 hours	2016-09-13T21:51:59Z	Musical Instruments
270976	35 mins	2014-08-10T20:19:10Z	Web Development
1214144	1 hour	2017-05-30T14:30:12Z	Business Finance
...
552598	1 hour	2015-07-15T00:21:56Z	Web Development
1068590	2.5 hours	2017-01-18T17:01:40Z	Web Development
752706	1.5 hours	2016-03-03T17:45:31Z	Web Development
1257976	1 hour	2017-06-29T00:29:36Z	Musical Instruments
1225194	2 hours	2017-05-26T16:45:55Z	Business Finance

[310 rows x 10 columns]

```
In [7]: print(f"The courses which are 'Paid ' are \n",df[df.is_paid==True] )
```

The courses which are 'Paid ' are

course_id	course_title	is_paid	price \
288942	#1 Piano Hand Coordination: Play 10th Ballad i...	True	35
1170074	#10 Hand Coordination - Transfer Chord Ballad ...	True	75
1193886	#12 Hand Coordination: Let your Hands dance wi...	True	75
1116700	#4 Piano Hand Coordination: Fun Piano Runs in ...	True	75
1120410	#5 Piano Hand Coordination: Piano Runs in 2 ...	True	75
...
498488	Your First Successful Forex Trades - With Case...	True	200
328960	Your Own Site in 45 Min: The Complete Wordpres...	True	120
552700	Your Second Course on Piano: Two Handed Playing	True	70
631754	Zend Framework 2: Learn the PHP framework ZF2 ...	True	40
964478	Zombie Apocalypse Photoshop Actions	True	50

course_id	num_subscribers	num_reviews	num_lectures	level \
288942	3137	18	68	All Levels
1170074	1593	1	41	Intermediate Level
1193886	482	1	47	Intermediate Level
1116700	850	3	43	Intermediate Level
1120410	940	3	32	Intermediate Level
...
498488	1079	34	16	All Levels
328960	1566	29	36	All Levels
552700	1018	12	22	Beginner Level
631754	723	130	37	All Levels
964478	12	1	15	All Levels

course_id	content_duration	published_timestamp	subject
288942	1.5 hours	2014-09-18T05:07:05Z	Musical Instruments
1170074	1 hour	2017-04-12T19:06:34Z	Musical Instruments
1193886	1.5 hours	2017-04-26T18:34:57Z	Musical Instruments
1116700	1 hour	2017-02-21T23:48:18Z	Musical Instruments
1120410	37 mins	2017-02-21T23:44:49Z	Musical Instruments
...
498488	2.5 hours	2015-05-26T20:48:48Z	Business Finance
328960	4 hours	2015-04-20T22:15:17Z	Web Development
552700	5 hours	2015-10-26T20:04:21Z	Musical Instruments
631754	6.5 hours	2015-11-11T18:55:45Z	Web Development
964478	1.5 hours	2016-09-26T22:19:48Z	Graphic Design

[3372 rows x 10 columns]

```
In [11]: print(f"The Top Selling Courses i.e most subscribers are \n {df.sort_values('num_su
```

The Top Selling Courses i.e most subscribers are

course_id	course_title	is_paid	price \
41295	Learn HTML5 Programming From Scratch	False	Free
59014	Coding for Entrepreneurs Basic	False	Free
625204	The Web Developer Bootcamp	True	200
173548	Build Your First Website in 1 Week with HTML5 ...	False	Free
764164	The Complete Web Developer Course 2.0	True	200
...
1223240	Learn Pirates of the Caribbean by Ear on the P...	True	20
1258666	Financial Statement Auditing Cycles	True	50
1215926	Kickstarter success in 5 easy steps	True	20
1247992	Introduction to Project Management for Finance...	True	50
1087466	Stop Creditors from Harassing you and Avoid Ba...	True	20

course_id	num_subscribers	num_reviews	num_lectures	level \
41295	268923	8629	45	All Levels
59014	161029	279	27	Beginner Level
625204	121584	27445	342	All Levels
173548	120291	5924	30	Beginner Level
764164	114512	22412	304	All Levels
...
1223240	0	0	6	All Levels
1258666	0	0	9	Intermediate Level
1215926	0	0	12	All Levels
1247992	0	0	9	Beginner Level
1087466	0	0	7	Beginner Level

course_id	content_duration	published_timestamp	subject
41295	10.5 hours	2013-02-14T07:03:41Z	Web Development
59014	3.5 hours	2013-06-09T15:51:55Z	Web Development
625204	43 hours	2015-11-02T21:13:27Z	Web Development
173548	3 hours	2014-04-08T16:21:30Z	Web Development
764164	30.5 hours	2016-03-08T22:28:36Z	Web Development
...
1223240	32 mins	2017-05-22T17:14:43Z	Musical Instruments
1258666	2 hours	2017-06-29T23:20:10Z	Business Finance
1215926	31 mins	2017-05-16T14:55:28Z	Business Finance
1247992	2 hours	2017-07-03T21:40:32Z	Business Finance
1087466	37 mins	2017-02-02T16:22:37Z	Business Finance

[3682 rows x 10 columns]

```
In [12]: print(f"The Least Selling Courses i.e least subscribers are \n {df.sort_values('num
```

The Least Selling Courses i.e least subscribers are

course_id	course_title	is_paid	price \
1233314	Building a Balanced Scorecard	True	50
1232282	The Cash Flow Statement - An Introduction	True	50
1275872	The Complete Adobe Spark Course	True	150
726314	Create Beautiful Image Maps for Your Website	True	20
715476	The Cuckoo Strategy to get European Funding	True	160
...
764164	The Complete Web Developer Course 2.0	True	200
173548	Build Your First Website in 1 Week with HTML5 ...	False	Free
625204	The Web Developer Bootcamp	True	200
59014	Coding for Entrepreneurs Basic	False	Free
41295	Learn HTML5 Programming From Scratch	False	Free

course_id	num_subscribers	num_reviews	num_lectures	level \
1233314	0	0	11	Intermediate Level
1232282	0	0	10	Beginner Level
1275872	0	0	29	All Levels
726314	0	0	8	Intermediate Level
715476	0	0	6	All Levels
...
764164	114512	22412	304	All Levels
173548	120291	5924	30	Beginner Level
625204	121584	27445	342	All Levels
59014	161029	279	27	Beginner Level
41295	268923	8629	45	All Levels

course_id	content_duration	published_timestamp	subject
1233314	2 hours	2017-07-03T21:38:22Z	Business Finance
1232282	1.5 hours	2017-06-28T16:05:51Z	Business Finance
1275872	2 hours	2017-07-03T17:39:57Z	Graphic Design
726314	37 mins	2016-01-18T17:56:36Z	Graphic Design
715476	1 hour	2016-01-06T02:38:23Z	Business Finance
...
764164	30.5 hours	2016-03-08T22:28:36Z	Web Development
173548	3 hours	2014-04-08T16:21:30Z	Web Development
625204	43 hours	2015-11-02T21:13:27Z	Web Development
59014	3.5 hours	2013-06-09T15:51:55Z	Web Development
41295	10.5 hours	2013-02-14T07:03:41Z	Web Development

[3682 rows x 10 columns]

```
In [38]: #Code wont work since there are different data types in price especially the string
df['price']=df['price'].str.replace('Free','0')
pd.to_numeric(df['price'])
print(f"The courses of Graphic Design where the price is below 100 are \n {df[(df.s
```

The courses of Graphic Design where the price is below 100 are

course_id	course_title	is_paid	price	\
733878	Adobe Illustrator Course in Urdu Basics Level ...	False	0	
723818	Adobe Indesign CC Başlangıç	False	0	
896742	Aprenda Modelagem 3D com o 123D Design	False	0	
1249378	AutoCAD Course - Learn Online AutoCAD in Urdu ...	False	0	
1261122	画像加工の初心者でも「1日」で初歩を覚えられる無料講座	False	0	F
1185535	Cómo crear maquetas con Adobe XD	False	0	
809216	Canva: Design Album Cover Artwork in Minutes -...	False	0	
902300	Convert Image to Vector in Adobe illustrator	False	0	
650720	Creare un logo con Adobe Illustrator	False	0	
874656	Create Stunning Infographics to Share your Ideas	False	0	
1181578	Deinen Roman setzen mit PagePlus in 10 einfach...	False	0	
901082	Digital Art in Adobe Illustrator CC: Angry Bir...	False	0	
525446	Draw a Kitten	False	0	
755680	Draw a realistic Fantail using pencil	False	0	
609642	Ferramentas Visuais	False	0	
17349	Figure Drawing From Life Using The Reilly Tech...	False	0	
660876	Graphic Design - An Overview of the Field	False	0	
930416	How to design a business card on Photoshop (fo...	False	0	
1132572	How to Design an Awesome Letterhead in Adobe I...	False	0	
1156778	How to stylize your photos in Photoshop with c...	False	0	
590794	Illustrator Quick Tip: 10分でKawaiiカメレオンを描こう	False	0	
1260674	Learn Comic Book Color Flatting! (Coloring Ass...	False	0	
627782	Learn Illustrator By Recreating Top 3 Logos - ...	False	0	
22445	Learn to Design a Letterhead - A Beginners Course	False	0	
1047508	Make yourself a Santa Claus: Photoshop Manipul...	False	0	
787340	Most Wanted Flat Design Techniques #1: Desert ...	False	0	
1226518	Photoshop & Illustrator CC Essentials in Arabic	False	0	
1257870	Photoshop CC 2015 Top New Features	False	0	
1223336	Photoshop Essentials - Uma Introdução Detalhada	False	0	
348116	Photoshop In-Depth: Master all of Photoshop's ...	False	0	
611804	Primeros Pasos con Photoshop CC	False	0	
399938	Professional Logo Design in Adobe Illustrator	False	0	
611370	Quote Images for Pinterest, Facebook, & Instagram	False	0	
839536	Start Making Comics with Manga Studio 5 / Clip...	False	0	
1245392	Voxel 3D Model Creation Course	False	0	

course_id	num_subscribers	num_reviews	num_lectures	level	\
733878	1433	57	8	Beginner Level	
723818	637	21	22	Beginner Level	
896742	334	26	27	Beginner Level	
1249378	105	2	22	All Levels	
1261122	21	0	18	Beginner Level	
1185535	217	2	21	Beginner Level	
809216	3103	42	11	Beginner Level	
902300	3251	158	13	Intermediate Level	
650720	1447	121	13	All Levels	
874656	5175	470	7	Beginner Level	
1181578	69	6	25	All Levels	
901082	3108	27	28	Beginner Level	
525446	3812	68	11	All Levels	
755680	6754	109	20	All Levels	

609642	817	42	18	Beginner Level
17349	47811	1041	22	All Levels
660876	23229	2215	12	Beginner Level
930416	5086	197	12	Beginner Level
1132572	4776	115	18	All Levels
1156778	3512	58	17	Beginner Level
590794	381	24	7	All Levels
1260674	946	3	6	Beginner Level
627782	8786	245	11	Beginner Level
22445	24687	423	13	All Levels
1047508	2665	20	8	All Levels
787340	4294	143	15	Intermediate Level
1226518	3329	193	33	Beginner Level
1257870	1477	3	13	All Levels
1223336	800	39	24	Beginner Level
348116	53851	1779	45	All Levels
611804	6429	654	31	Beginner Level
399938	44044	1563	45	All Levels
611370	12103	576	18	Beginner Level
839536	5301	125	77	All Levels
1245392	1031	9	8	All Levels

course_id	content_duration	published_timestamp	subject
733878	1 hour	2016-01-19T17:22:59Z	Graphic Design
723818	2.5 hours	2016-01-14T18:52:21Z	Graphic Design
896742	1 hour	2016-07-07T21:15:34Z	Graphic Design
1249378	2 hours	2017-06-13T17:32:48Z	Graphic Design
1261122	1 hour	2017-06-22T15:01:32Z	Graphic Design
1185535	3 hours	2017-05-28T16:17:36Z	Graphic Design
809216	40 mins	2016-04-07T23:57:25Z	Graphic Design
902300	31 mins	2016-07-13T16:57:42Z	Graphic Design
650720	1 hour	2015-10-29T00:10:41Z	Graphic Design
874656	30 mins	2016-08-14T22:04:11Z	Graphic Design
1181578	3.5 hours	2017-04-24T16:44:12Z	Graphic Design
901082	2.5 hours	2016-08-12T17:34:45Z	Graphic Design
525446	1.5 hours	2015-06-12T18:37:40Z	Graphic Design
755680	1 hour	2016-02-11T22:05:05Z	Graphic Design
609642	5 hours	2015-10-09T23:42:33Z	Graphic Design
17349	2.5 hours	2012-05-09T18:14:57Z	Graphic Design
660876	1 hour	2015-11-09T19:10:57Z	Graphic Design
930416	1 hour	2016-08-27T19:02:40Z	Graphic Design
1132572	34 mins	2017-03-03T03:20:22Z	Graphic Design
1156778	1.5 hours	2017-03-30T16:26:36Z	Graphic Design
590794	36 mins	2015-08-31T20:52:45Z	Graphic Design
1260674	40 mins	2017-06-20T17:57:00Z	Graphic Design
627782	1 hour	2015-10-04T19:36:34Z	Graphic Design
22445	44 mins	2012-10-10T23:34:55Z	Graphic Design
1047508	34 mins	2016-12-22T17:10:35Z	Graphic Design
787340	1 hour	2016-03-17T18:15:21Z	Graphic Design
1226518	3.5 hours	2017-05-31T23:16:00Z	Graphic Design
1257870	39 mins	2017-06-26T19:37:58Z	Graphic Design
1223336	2.5 hours	2017-05-22T09:58:21Z	Graphic Design
348116	4.5 hours	2014-11-30T04:22:11Z	Graphic Design
611804	2.5 hours	2015-09-23T15:30:59Z	Graphic Design
399938	7.5 hours	2015-01-22T11:18:06Z	Graphic Design

611370	1 hour	2015-09-24T19:47:45Z	Graphic Design
839536	6.5 hours	2016-06-21T02:49:47Z	Graphic Design
1245392	39 mins	2017-06-08T22:46:39Z	Graphic Design

```
In [40]: #for i in df['price'].str.contains('Free'):
#         if df['price'].str.contains('Free') == True:
#             df.drop(df.price[i])
print(f"The Courses realted to 'Python' are \n {df[df.course_title.str.contains('Py
```

The Courses realted to 'Python' are

course_id	course_title	is_paid	price \
599504	Advanced Scalable Python Web Development Using...	True	120
47963	Coding for Entrepreneurs: Learn Python, Django...	True	195
631128	Complete Python Web Course: Build 8 Python Web...	True	110
186096	Core: A Web App Reference Guide for Django, Py...	True	195
394832	Fun and creative web engineering with Python a...	False	0
1038538	Introduction to QGIS Python Programming	True	85
902888	Investment Portfolio Analysis with Python	True	50
391546	Learn Python and Django: Payment Processing	True	70
1063722	Learn Python Django - A Hands-On Course	True	50
546848	Learn to code in Python and learn Adobe Photos...	True	50
368340	Professional Python Web Development Using Flask	True	120
1035940	Professional RESTful API Design using Python F...	True	120
270808	Projects in Django and Python	True	60
1170894	Python Algo Stock Trading: Automate Your Trading!	True	95
1070886	Python Algo Trading: FX Trading with Oanda	True	200
1196544	Python Algo Trading: Sentiment Trading with News	True	200
822444	Python and Django Full Stack Web Developer Boo...	True	200
477702	Python for Beginners: Python Programming Langu...	True	150
1035472	Python for Finance: Investment Fundamentals & ...	True	195
529828	Python for Trading & Investing	True	95
70640	Python Programming: Create an Digital Marketpl...	True	195
523312	Python Web Programming	True	100
1088656	Quantitative Trading Analysis with Python	True	50
970600	REST APIs with Flask and Python	True	110
815482	Stock Technical Analysis with Python	True	50
938560	The Complete Ethical Hacking Course 2.0: Pytho...	True	195
76052	Try Django 1.9 Build a Blog and Learn Python...	True	50
16646	Web Programming with Python	True	50
574082	Web Scraping with Python, Ruby & import. io	True	75

course_id	num_subscribers	num_reviews	num_lectures	level \
599504	1299	56	71	Intermediate Level
47963	23412	799	251	All Levels
631128	7489	941	173	All Levels
186096	2497	98	154	All Levels
394832	10917	319	25	All Levels
1038538	197	26	28	Beginner Level
902888	209	13	37	All Levels
391546	17714	198	23	All Levels
1063722	1339	21	18	Beginner Level
546848	1132	1	29	All Levels
368340	3420	489	102	Beginner Level
1035940	578	25	36	Intermediate Level
270808	1764	53	28	All Levels
1170894	1165	21	41	Beginner Level
1070886	453	42	33	Intermediate Level
1196544	294	19	42	All Levels
822444	11832	1883	191	All Levels
477702	6153	125	84	Beginner Level
1035472	3811	278	103	All Levels
529828	638	25	36	All Levels
70640	4198	145	161	All Levels

523312	1020	46	60	Beginner Level
1088656	256	17	49	All Levels
970600	5151	737	115	Intermediate Level
815482	409	35	46	All Levels
938560	7827	268	66	All Levels
76052	7407	172	147	All Levels
16646	35267	217	53	All Levels
574082	973	50	46	All Levels

course_id	content_duration	published_timestamp	subject
599504	14 hours	2016-08-11T22:09:24Z	Web Development
47963	45 hours	2013-04-08T00:46:14Z	Web Development
631128	16 hours	2015-11-08T20:57:35Z	Web Development
186096	26 hours	2014-05-29T00:58:43Z	Web Development
394832	2 hours	2015-06-09T19:51:50Z	Web Development
1038538	3.5 hours	2016-12-22T00:11:22Z	Web Development
902888	7 hours	2016-07-13T21:40:32Z	Business Finance
391546	3.5 hours	2015-02-09T15:37:56Z	Web Development
1063722	2 hours	2017-01-18T21:53:34Z	Web Development
546848	2 hours	2015-07-08T00:15:12Z	Graphic Design
368340	14.5 hours	2015-03-04T00:10:36Z	Web Development
1035940	4.5 hours	2017-01-11T21:15:25Z	Web Development
270808	6.5 hours	2014-10-21T07:58:07Z	Web Development
1170894	2.5 hours	2017-05-28T23:41:03Z	Business Finance
1070886	3 hours	2017-03-14T00:39:45Z	Business Finance
1196544	7 hours	2017-04-28T16:41:44Z	Business Finance
822444	31.5 hours	2017-02-24T18:40:55Z	Web Development
477702	5 hours	2015-06-14T18:18:57Z	Web Development
1035472	6.5 hours	2017-03-30T22:17:09Z	Business Finance
529828	5 hours	2015-06-17T22:23:31Z	Business Finance
70640	26 hours	2013-10-20T19:53:28Z	Web Development
523312	6 hours	2015-07-01T21:46:36Z	Web Development
1088656	5.5 hours	2017-01-27T17:11:28Z	Business Finance
970600	12.5 hours	2016-11-06T19:00:38Z	Web Development
815482	8 hours	2016-04-12T00:40:03Z	Business Finance
938560	11 hours	2016-09-26T15:08:29Z	Web Development
76052	20 hours	2014-03-04T07:12:21Z	Web Development
16646	4 hours	2012-04-25T00:01:43Z	Web Development
574082	4.5 hours	2015-08-09T22:16:41Z	Web Development

and they are 2
9 in number

```
In [48]: df.dtypes
#convert published_timestamp to datetime format
df['published_timestamp']=pd.to_datetime(df.published_timestamp)
df.dtypes
# Create a new column year from published_timestamp column
df['Year']=df['published_timestamp'].dt.year
df.head(5)
print(f"The courses that published in 2015 are {len(df[df.Year==2015])} as follows
```

The courses that published in 2015 are 1014 as follows

course_id	course_title	is_paid	price \
591880	1 - Concepts of Statistics For Beginners Step ...	True	200
302450	10 Numbers Every Business Owner Should Know	True	20
384928	101 Blues riffs - learn how the harmonica supe...	True	200
550842	16 Guitar Chords to Jam With - (Beginner - Int...	True	20
486240	2 Easy Steps To Investment And Avoiding Traps	True	20
...
551170	Your First Course on Piano	True	70
498488	Your First Successful Forex Trades - With Case...	True	200
328960	Your Own Site in 45 Min: The Complete Wordpres...	True	120
552700	Your Second Course on Piano: Two Handed Playing	True	70
631754	Zend Framework 2: Learn the PHP framework ZF2 ...	True	40

course_id	num_subscribers	num_reviews	num_lectures	level \
591880	273	4	15	Beginner Level
302450	13	1	9	All Levels
384928	1350	65	55	Intermediate Level
550842	1224	19	20	Beginner Level
486240	828	1	20	All Levels
...
551170	2002	34	33	Beginner Level
498488	1079	34	16	All Levels
328960	1566	29	36	All Levels
552700	1018	12	22	Beginner Level
631754	723	130	37	All Levels

course_id	content_duration	published_timestamp	subject \
591880	31 mins	2015-08-30 22:48:34+00:00	Business Finance
302450	1 hour	2015-03-08 19:11:24+00:00	Business Finance
384928	6.5 hours	2015-01-04 21:14:31+00:00	Musical Instruments
550842	1 hour	2015-07-10 19:53:56+00:00	Musical Instruments
486240	1 hour	2015-04-27 23:18:59+00:00	Business Finance
...
551170	4 hours	2015-07-16 17:07:49+00:00	Musical Instruments
498488	2.5 hours	2015-05-26 20:48:48+00:00	Business Finance
328960	4 hours	2015-04-20 22:15:17+00:00	Web Development
552700	5 hours	2015-10-26 20:04:21+00:00	Musical Instruments
631754	6.5 hours	2015-11-11 18:55:45+00:00	Web Development

course_id	Year
591880	2015
302450	2015
384928	2015
550842	2015
486240	2015
...	...
551170	2015
498488	2015
328960	2015
552700	2015
631754	2015

[1014 rows x 11 columns]

```
In [53]: df.level.unique()
```

```
Out[53]: array(['All Levels', 'Intermediate Level', 'Beginner Level',  
              'Expert Level'], dtype=object)
```

```
In [52]: print(f"The max No of Subscribers for each Level of Courses is \n {df.groupby('level")
```

The max No of Subscribers for each Level of Courses is

level

All Levels 268923

Beginner Level 161029

Expert Level 5172

Intermediate Level 29167

Name: num_subscribers, dtype: int64

```
In [ ]:
```