Modifying DataFrames in Pandas

Once again, we'll be working with data from ShoeFly.com, a fictional online shoe store

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	id	id first_name last_name		email	shoe_type	shoe_material	shoe_color		
0	74970	Albert	Crane	ACrane 1998@gmail.com	ballet flats	fabric	white		
1	28140	Lauren	Wise	LWise1972@gmail.com	Sandles	fabric	black		
2	16841	Bryan	Maldonado	Bryan.Maldonado@gmail.com	STILLETTOS	fabric	navy		
3	19695	Nancy	Talley	NTalley1988@gmail.com	wedges	fabric	black		
4	61287	Catherine	Brown	CBrown1981@gmail.com	Boots	faux-leather	white		
5	57141	Doris	Newton	DN6902@gmail.com	Sandles	fabric	navy		
6	52132	Billy	Mointyre	BM6854@hotmail.com	wedges	faux-leather	navy		
7	25486	Sarah	Kaufman	SK8490@gmail.com	Sandles	leather	navy		
8	12421	Susan	Leblanc	SusanLeblanc40@outlook.com	CLOGS	fabric	red		
9	36234	Benjamin	Newton	BenjaminNewton59@aol.com	CLOGS	faux-leather	navy		

n [3]:	import string										
	<pre>df['shoe_type'] = df.shoe_type.apply(string.lower) df.head(18)</pre>										
lut[3]:	_		first name	last_name	email	shoe type	shoe material				
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	0	74970	Albert	Crane	ACrane1998@gmail.com	ballet flats	fabric	white			
	1	28140	Lauren	Wise	LWise1972@gmail.com	sandals	fabric	black			
	2	16841	Bryan	Maldonado	Bryan.Maldonado@gmail.com	stillettos	fabric	navy			
	3	19695	Nancy	Talley	NTalley1988@gmail.com	wedges	fabric	black			
	4	61287	Catherine	Brown	CBrown1981@gmail.com	boots	faux-leather	white			
	5	57141	Doris	Newton	DN6902@gmail.com	sandals	fabric	navy			
	6	52132	Billy	Mointyre	BM6854@hotmail.com	wedges	faux-leather	navy			
	7	25486	Sarah	Kaufman	SK8490@gmail.com	sandals	leather	navy			
	8	12421	Susan	Leblanc	SusanLeblanc40@outlook.com	dogs	fabric	red			
	9	36234	Benjamin	Newton	BenjaminNewton59@aol.com	dogs	faux-leather	navv			

In [4]: df['in\_stock'] = df.shoe\_material.apply(lambda x: False if x == 'fabric' else True)

Г	id	first_name	last_name	email	shoe_type	shoe_material	shoe_color	in_stock
0	74970	Albert	Crane	ACrane 1998@gmail.com	ballet flats	fabric	white	False
1	28140	Lauren	Wise	LWise1972@gmail.com	sandals	fabric	black	False
2	16841	Bryan	Maldonado	Bryan.Maldonado@gmail.com	stillettos	fabric	navy	False
3	19695	Nancy	Talley	NTalley1988@gmail.com	wedges	fabric	black	False
4	61287	Catherine	Brown	CBrown1981@gmail.com	boots	faux-leather	white	True
5	57141	Doris	Newton	DN6902@gmail.com	sandals	fabric	navy	False
6	52132	Billy	Mointyre	BM6854@hotmail.com	wedges	faux-leather	navy	True
7	25486	Sarah	Kaufman	SK8490@gmail.com	sandals	leather	navy	True
8	12421	Susan	Leblanc	SusanLeblanc40@outlook.com	dogs	fabric	red	False
9	36234	Benjamin	Newton	BenjaminNewton59@aol.com	dogs	faux-leather	navy	True

•		id	first_name	last_name	email	shoe_type	shoe_material	shoe_color	in_stock	description
	0	74970	Albert	Crane	ACrane1998@gmail.com	ballet flats	fabric	white	False	Albert Crane bought white fabric ballet flats
	-	28140	Lauren	Wise	LWise1972@gmail.com	sandals	fabric	black	False	Lauren Wise bought black fabric sandals
	2	16841	Bryan	Maldonado	Bryan.Maldonado@gmail.com	stillettos	fabric	navy	False	Bryan Maldonado bought navy fabric stillettos
	3	19695	Nancy	Talley	NTalley1988@gmail.com	wedges	fabric	black	False	Nancy Talley bought black fabric wedges
	4	61287	Catherine	Brown	CBrown1981@gmail.com	boots	faux-leather	white	True	Catherine Brown bought white faux-leather boots
	5	57141	Doris	Newton	DN6902@gmail.com	sandals	fabric	navy	False	Doris Newton bought navy fabric sandals
	6	52132	Billy	Mointyre	BM6854@hotmail.com	wedges	faux-leather	navy	True	Billy Mcintyre bought navy faux-leather wedges
	7	25486	Sarah	Kaufman	SK8490@gmail.com	sandals	leather	navy	True	Sarah Kaufman bought navy leather sandals
	80	12421	Susan	Leblano	SusanLeblanc40@outlook.com	dogs	fabric	red	False	Susan Leblanc bought red fabric clogs
ĺ	9	36234	Benjamin	Newton	BenjaminNewton59@aol.com	dogs	faux-leather	navy	True	Benjamin Newton bought navy faux-leather clogs