Homework 04 Submission

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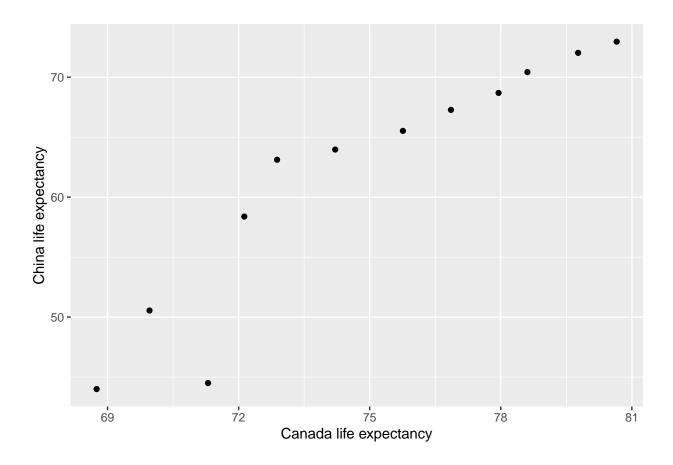
1 Exercise 1

1.1 Widen gapminder dataset by creating a lifeExp column for each country

year	Canada	China
1952	68.750	44.00000
1957	69.960	50.54896
1962	71.300	44.50136
1967	72.130	58.38112
1972	72.880	63.11888
1977	74.210	63.96736
1982	75.760	65.52500
1987	76.860	67.27400
1992	77.950	68.69000
1997	78.610	70.42600
2002	79.770	72.02800
2007	80.653	72.96100

1.2 Create a scatterplot of life expectancies in Canada vs China

```
gapminder_wide %>%
ggplot(aes(x = Canada, y = China)) + # Specify the x and y variables for ggplot
geom_point() + # Add point aesthetics for each data point
xlab("Canada life expectancy") + # label x axis
ylab("China life expectancy") # label y axis
```



1.3 Re-lengthen the widen gapminder dataset

Show 10 • entries					Searc	h:			
	year ♦		country	\$				li	ifeExp #
1	1952 C	Canada							68.75
2	1952 C	China							44
3	1957 C	Canada							69.96
4	1957 C	China						50).54896
5	1962 C	Canada							71.3
6	1962 C	China						44	1.50136
7	1967 C	Canada							72.13
8	1967 C	China						58	3.38112
9	1972 C	Canada							72.88
10	1972 C	China						63	3.11888
Showing 1 to 10 of 24 entries				Pre	evious	1	2	3	Next

2 Exercise 2

2.1 Widen gapminder dataset by creating lifeExp and gdpPerCap columns for each country

year	$life Exp_Canada$	lifeExp_China	$gdpPercap_Canada$	gdpPercap_China
1952	68.750	44.00000	11367.16	400.4486
1957	69.960	50.54896	12489.95	575.9870
1962	71.300	44.50136	13462.49	487.6740
1967	72.130	58.38112	16076.59	612.7057
1972	72.880	63.11888	18970.57	676.9001
1977	74.210	63.96736	22090.88	741.2375
1982	75.760	65.52500	22898.79	962.4214
1987	76.860	67.27400	26626.52	1378.9040

year	lifeExp_Canada	lifeExp_China	gdpPercap_Canada	gdpPercap_China
1992	77.950	68.69000	26342.88	1655.7842
1997	78.610	70.42600	28954.93	2289.2341
2002	79.770	72.02800	33328.97	3119.2809
2007	80.653	72.96100	36319.24	4959.1149

2.1.1 Re-lengthen the widen gapminder dataset

Show 10 entries	;			Search:			
	year #	country	\$ lifeExp			gdp	Percap #
1	1952	Canada	68.75			1136	57.16112
2	1952	China	44			400	0.448611
3	1957	Canada	69.96			1248	39.95006
4	1957	China	50.54896			575.	9870009
5	1962	Canada	71.3			1346	52.48555
6	1962	China	44.50136			487.	6740183
7	1967	Canada	72.13			1607	76.58803
8	1967	China	58.38112			612.	7056934
9	1972	Canada	72.88			1897	70.57086
10	1972	China	63.11888			676.	9000921
Showing 1 to 10 of 2	4 entries		Pre	vious	1	2 3	Next

3 Exercise 3

```
guest <- read_csv("../data/wedding/attend.csv")
email <- read_csv("../data/wedding/emails.csv")</pre>
```

3.1 Merge the email column to the guest dataset

Show 10	entries			Searc	h:			
	party 🏺	guest	#	e	mail			*
1	1	Sommer Medrano	5	sommm@gmail.com				
2	1	Phillip Medrano		sommm@gmail.com				
3	1	Blanka Medrano		sommm@gmail.com				
4	1	Emaan Medrano	5	sommm@gmail.com				
5	2	Blair Park]	bpark@gmail.com				
6	2	Nigel Webb]	bpark@gmail.com				
7	3	Sinead English	5	singlish@hotmail.ca				
8	4	Ayra Marks]	marksa42@gmail.com	n			
9	5	Atlanta Connolly						
10	5	Denzel Connolly						
Showing 1 to	10 of 30 entries			Previous	1	2	3	Next

3.2 Report individuals with known emails but not on guest list

name
Turner Jones
Albert Marshall
Vivian Marshall

3.3 Report everyone in the guest and email datasets

Show 10 rentries		Search	:
		name	
1	Sommer Medrano		
2	Phillip Medrano		
3	Blanka Medrano		
4	Emaan Medrano		
5	Blair Park		
6	Nigel Webb		
7	Sinead English		
8	Ayra Marks		
9	Jolene Welsh		
10	Hayley Booker		
Showing 1 to 10 of 33	entries	Previous 1	2 3 4 Next