I	Project DS	30040		id 19	Data	Ana	lysis	and	Com	paris	son	1									
	Author: K	ausik C	Chatta	apadł	nyay																
	Milestone 2 Perform at least 5 of	data transforma	ation and/oı	r cleansing	g steps to	your flat	file data	. For exar	nple:												
•	Replace HeadersFormat data into a	a more readabl	e format																		
•	Identify outliers aFind duplicates																				
	Fix casing or incoConduct Fuzzy M		3																		
(Dataset CSV - The Covid 1 this has	9 data is scra	pped from	John Hop	kins Univ	versity gi	ithub re _l	po : https	s://github	.com/CS	SEGIS	SandDat	a/COVIE)19/tree	e/maste	r/csse_co	ovid_19_d	lata/csse	_covid_1	9_time_s	eries
	• Daily time		-	_	_		_						read in	from	the da	ily ca	se repo	rt. The	time s	eries	
	 Two time Three time province/stee Data is u Load the necessar	e series tabate level. pdated at a	oles are	for the								-		ia, Ca	nada a	nd Chin	a are r	eported	at the		
[2]:	<pre># import librar: from datetime in</pre>	ies			for date	e and tin	me opea	tions													
:	<pre>import re # fo import glob # fo import requests import pandas as</pre>	or regular ex or listing fi # for getti pd # stori	xpression iles in a ing web co ing and an	operation folder ontents nalysing o	data																
3]: 7	<pre>from bs4 import import numpy as # Read dataset conf_df = pd.rea</pre>	np # numerio	cal analys	sis			agy')														
]	deaths_df = pd.n recv_df = pd.rea #View the data	read_csv('time_ad_csv('time_	ne_series_ _series_co	_covid19_c	deaths_g	lobal.cs	sv')														
4]:	<pre>province/State 0 NaN</pre>		Lat 33.93911		g 1/22/20				0 1/26/20)			1/8/2 3		3 1/10/2 3			3 1/13/2 3		
	1 NaN 2 NaN	Albania	41.15330 28.03390	20.168300) () (0	0	0 () (333887		333947	7 33394	8 33399	5 33399	5 334018	334018	334029	9 33
4	3 NaN4 NaN	Angola	42.50630 -11.20270				0	0	0 0) (0	47781 105095	47781 105095	47781 105095							
	o rows × 1094 colur																				
	Province/State O NaN	Afghanistan	33.93911	67.709953	3 () (0	0	0 () (O	7850	7850	7853	7854	7854	7854	7854	7854	7854	/ 15/2 785
:	 NaN NaN NaN 	-	28.03390 42.50630) () (0	0	0 () (0 0 0	3596 6881 165	3596 6881 165	3596 6881 165	3596 6881 165	3596 6881 165	3596 6881 165	3596 6881 165	3596 6881 165	3596 6881 165	359 688 16
	4 NaN 5 rows × 1094 colur		-11.20270	17.873900) () (0	0	0 () (0	1930	1930	1930	1930	1930	1930	1930	1930	1930	193
[6]: [3	recv_df.head() Province/State	Country/Region	Lat	Long	g 1/22/20) 1/23/2(0 1/24/2	20 1/25/2	0 1/26/20) 1/27/20	o	1/6/23	1/7/23	1/8/23	1/9/23 1	/10/23 1	1/11/23 1	/12/23 1/	/13/23 1/	/14/23 1/	/15/2
	0 NaN 1 NaN	Afghanistan Albania	33.93911 41.15330	67.709953 20.168300	3 () (0	0 () (0	0	0	0	0	0 0	0	0	0 0	0 0	
;	2 NaN3 NaN4 NaN	Andorra	28.03390 42.50630 -11.20270	1.521800) () (3345		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
	5 rows × 1094 colur																				
;	<pre># Merge the data # extract dates dates = conf_df # melt dataframe</pre>	columns[4:]	er format																		
C	<pre>conf_df_long = d deaths_df_long =</pre>	conf_df.melt(id_vars=[value_var	['Province rs=dates,	var_nam	ne='Date	',value	_name='C	onfirmed	')	l,										
	recv_df_long = 1	recv_df.melt(value_var	rs=dates, ['Province	var_nam e/State'	e='Date , 'Count	', value	e_name=' ion', 'L	Deaths') at', 'Lo	ng'],											
1	<pre>print(conf_df_lo print(deaths_df_ print(recv_df_lo</pre>	long.shape)																			
((315010, 6) (315010, 6) (298660, 6)																				
:	<pre># merge datafram full_table = pd full_table = pd</pre>	merge(left=c	conf_df_lo	ong, right	t=deaths	_df_lone	g, how=	'left',	on=['Pro	vince/St	ate'	, 'Coun)			
8]:	full_table.head		Lat	Long	g Date	Confirm	ned Dea	ths Reco	vered												
	0 NaN1 NaN2 NaN	Albania	33.93911 41.15330 28.03390	20.168300	0 1/22/20		0 0	0 0 0	0.0												
;	3 NaN 4 NaN	Andorra	42.50630 -11.20270	1.521800	0 1/22/20		0 0	0	0.0												
(Cleanup Activities	•						0	0.0												
; ;	# 2. fill na with full_table['Reconstruction # 3. convert to full_table['Reconstruction full_table['Reconstruction # 4. fixing Counstruction full_table['Counstruction full_table['Counstruction full_table['Counstruction full_table]	<pre>int datatype overed'] = fu overed'] = fu overed'] = fu overed', recountries, recountries, recountries,</pre>	datetime(full_table[edites.	'Recovere	ed'].fil	.lna(0) .ype('int				'South	Kore	•a')									
	# 2. fill na with full_table['Reconstruction # 3. convert to full_table['Reconstruction # 4. fixing Counstruction # 4.1 renaming of full_table['Counstruction # 4.2 Greenland full_table.loc[fill] # 4.3 Mainland of full_table['Counstruction # 5. Removing construction # 5. Removing construction # 5. Redouble = full Adding Calculated	ch 0 overed'] = fu int datatype overed'] = fu ntry names countries, re ntry/Region'] china to Chir ntry/Region'] ounty wise da ll_table[full	datetime(fall_table[segions, preserved] = full_t Province/S a	['Recovered ['Recovered ['Recovered ['Recovered ['Coulon of the count of the co	ed'].fil ed'].ast untry/Re 'Greenla untry/Re e counti	.lna(0) .ype('integion'].1 .nd', 'Co	replace ountry/	('Korea, Region']	South', = 'Gree: nd China	nland'		ea')									
.0]:	# 2. fill na with full_table['Reconstruction # 3. convert to full_table['Reconstruction full_table['Reconstruction # 4.1 renaming of full_table['Courstruction # 4.2 Greenland full_table.loc[fill # 4.3 Mainland of full_table['Courstruction # 5. Removing courstruction # 5. Removing courstruction # Adding Calculated # Active Case = full_table['Active Case	ch 0 overed'] = fu int datatype overed'] = fu intry names countries, re ntry/Region'] full_table['E china to Chir ntry/Region'] ounty wise da ll_table[full dvalues and fi confirmed - ve'] = full_ ng values orovince/stat	datetime(fall_table[second, preserved] = full_terms ful	['Recovered ['Recovered ['Recovered rovinces table['Cou table	ed'].fil ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full	.lna(0) .ype('integration') .gion'] .gion'] .gion']	replace ountry/ replace tains('	('Korea, Region'] ('Mainla ,')!=Tru	South', = 'Gree: nd China e]	nland' ', 'Chin	na')										
	# 2. fill na with full_table['Reconstruction # 3. convert to full_table['Reconstruction # 4. fixing Counstruction # 4.1 renaming of full_table['Counstruction # 4.2 Greenland full_table.loc[fill] # 4.3 Mainland of full_table['Counstruction # 5. Removing construction # 5. Removing construction # 6. Removing constructio	ch 0 overed'] = fu int datatype overed'] = fu intry names countries, re ntry/Region'] full_table['In china to Chir ntry/Region'] ounty wise da al_table[full] dvalues and fi confirmed - tve'] = full_ ng values ovince/State' numerical valued', 'Deaths	datetime(fall_table[datetime(fall_table[datale_table[datale_table[datale_table['P lling missing deathstable['Co te value w]] = full dues with	['Recovered ['Recovered ['Recovered ['Recovered ['Counties ['Count	ed'].fil ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc	.lna(0) .ype('int .gion'].1 .ng .table[.ee/State	replace ountry/ replace tains('	('Korea, Region'] ('Mainla ,')!=Tru	South', = 'Gree: nd China e]	nland' ', 'Chin	na')										
	# 2. fill na with full_table['Reconstruction # 3. convert to full_table['Reconstruction # 4. fixing Counst # 4.1 renaming of full_table['Counst # 4.2 Greenland full_table.loc[fill] # 4.3 Mainland of full_table['Counst # 5. Removing construction # 6. Removing const	ch 0 overed'] = fu int datatype overed'] = fu intry names countries, re ntry/Region'] china to Chir china to Chir try/Region'] ounty wise da ll_table[ful] dvalues and fi confirmed - ve'] = full_ ng values ovince/State' numerical valued', 'Deaths ll = full_table pes	datetime(fall_table[datable[datable[degions, pr egions, pr efull_t deaths - table['P lling missir deaths - table['Co te value w egions, pr equipment of table to avo deaths - table['Co te value w egions, pr equipment of table to avo deaths - table['P lling missir deaths - table['Co te value w egions, pr equipment of table to avo deaths - table['P	['Recovered ['Recovered rovinces cable['Cou	ed'].fil ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active']	.lna(0) Eype('integration'). Egion']. Egion']. Eng str.cont	replace ountry/ replace tains('	('Korea, Region'] ('Mainla ,')!=Tru	South', = 'Gree: nd China e]	nland' ', 'Chin	na')										
	# 2. fill na wind full_table['Reconstruction # 3. convert to full_table['Reconstruction full_table['Reconstruction # 4. fixing Counstruction # 4.1 renaming of full_table['Counstruction # 4.2 Greenland full_table.loc[fill # 4.3 Mainland of full_table['Counstruction # 5. Removing counstruction # 5. Removing counstruction # 6. Removing co	ch 0 overed'] = fu int datatype overed'] = fu intry names countries, re ntry/Region'] cull_table['F china to Chin ntry/Region'] ounty wise da ll_table[full dvalues and fi confirmed - ve'] = full_ ng values ovince/State' numerical valued', 'Deaths perovince/State'	datetime(fall_table[sections, property fall_table[sections]	['Recovered ['Recovered rovinces cable['Cou	ed'].fil ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active']	.lna(0) .ype('int .gion'].1 .ng .table[.ee/State	replace ountry/ replace tains('	('Korea, Region'] ('Mainla ,')!=Tru	South', = 'Gree: nd China e]	nland' ', 'Chin	na')										
.0]: ::	# 2. fill na wind full_table['Reconstruction # 3. convert to full_table['Reconstruction full_table['Reconstruction # 4. fixing Counstruction # 4.1 renaming of full_table['Counstruction # 4.2 Greenland full_table.loc[fill # 4.3 Mainland of full_table['Counstruction # 5. Removing counstruction # 5. Removing counstruction # 6. Removing co	ch 0 overed'] = fu int datatype overed'] = fu intry names countries, re ntry/Region'] cull_table['E china to Chir ntry/Region'] ounty wise da ll_table[ful] dvalues and fi confirmed - ve'] = full_ ng values ovince/State' numerical valued', 'Deaths ovince/State'	datetime(fall_table[definity all_table[definity all_table[definity all_table[definity all_table['P lling missing deathstable['P lling missing deathstable['Co te value w]] = full lues with s', 'Recov de[cols].f	['Recovered 'Recovered 'Recovered 'Could double 'Province/S' able ['Could double 'Province/S' and values 'Province/S' and valu	ed'].ast untry/Re untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast	egion'].1 and', 'Co egion'].1 ang str.conf ee/State eype(int)	replace ountry/ replace tains(' 'Deaths ']].fil	('Korea, Region'] ('Mainla ,')!=Tru	South', = 'Green nd China e]	rland' ', 'Chin' 'Recovered 4	na') Additional of the second	ctive 58									
	# 2. fill na with full_table['Reco # 3. convert to full_table['Reco # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table.loc[fi # 4.3 Mainland of full_table['Coun # 5. Removing co full_table = full Adding Calculated # Active Case = full_table['Acti # filling missin # filling missin # fill missing p full_table[['Pro # fill missing p full_table[cols] # fixing datatyp full_table['Reco # Viewing sample full_table.samp] Province/\$ 22948 277741 Queens	ch 0 overed'] = fu int datatype overed'] = fu intry names countries, re ntry/Region'] full_table['F china to Chir ntry/Region'] ounty wise da al_table[full dvalues and fi confirmed - ve'] = full_ ng values ovince/State' numerical valued', 'Deaths = full_table overed'] = fu es overed'] = fu es state Country/ state Country/ state Country/ state Country/ state Country/ state Country/ state Country/ state Country/ state Country/ state Country/ state Country/ state Country/ state Country/ state Country/	datetime(fall_table[sections, property fall_table[sections]	['Recovered 'Recovered 'Could double 'Could double 'Province/S' ng values 'Province/S' ng v	ed'].ast untry/Re untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300	Ina(0) Type('int') Type('int') Type('int') Type(int') Type(int') Type(int')	replace ountry/i replace tains(' 'Deaths ']].fili) Date Control 09-09 02-23 -11-10	('Korea, Region'] ('Mainla ,')!=Tru onfirmed 65 1620034	South', = 'Green nd China e] Ltable[3 2048	rland' ', 'Chin' 'Recovered 4 0	na') Additional of the second	ctive 58 7986 289 3307									
.0]:	# 2. fill na with full_table['Reconstruction # 3. convert to full_table['Reconstruction # 4. fixing Counstruction # 4.1 renaming of full_table['Counstruction # 4.2 Greenland full_table.loc[fither] # 4.3 Mainland of full_table['Counstruction # 5. Removing counstruction # Active Case = full_table['Action # fill missing full_table['Action # fill missing full_table[['Procounty full_table]] # fill missing full_table['Reconstruction # fixing datatyment full_table.sample # Viewing sample # Viewing sample full_table.sample # Viewing sample # Oueens 22948 277741 Queens 220762 190269	ch 0 overed'] = fu int datatype overed'] = fu intry names countries, re ntry/Region'] cull_table['F china to Chin ntry/Region'] ounty wise da ll_table[full dvalues and fi confirmed - ve'] = full_ ng values ovince/State' numerical valued', 'Deaths ll = full_table overed'] = fu considered overed'] = fu des overed'] = fu ove	datetime(fall_table[secons, preservation] = full_table[secons] = full_ta	['Recovered 'Recovered 'Covinces Cable ['Counces Cable ['Counce / State'] == 'Counce / State'] == 'Counce / State'] == 'Counce / State'	ed'].ast ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 175.198200 42.590300 -1.023200 64.585265	######################################	replace ountry/i replace tains(' 'Deaths ']].fili '04-10 09-09 02-23 -11-10 02-12	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') onfirmed 65 1620034 289 13493	South', = 'Green nd China e] l_table[3 2048 0 186	Recovered 4 0 0 0	na') Ac 1617	ctive 58 7986 289 3307 6332									
.0]:	# 2. fill na wind full_table['Reconstruction full_table['Reconstruction full_table['Reconstruction full_table['Counstruction full_table['Counstruction full_table['Counstruction full_table['Counstruction full_table['Counstruction full_table['Counstruction full_table['Counstruction full_table['Action full_table['Action full_table['Production full_table['Production full_table['Production full_table['Reconstruction full_table]'Reconstruction full_table['Reconstruction full_table]'Reconstruction full_table.sample fu	ch 0 overed'] = fu int datatype overed'] = fu intry names countries, re ntry/Region'] cull_table['E china to Chin ntry/Region'] ounty wise da ll_table[full dvalues and fi confirmed - ive'] = full_ ng values ovince/State' numerical value ovince/State' numerical value ovince/State' numerical value ovince/State' numerical value ovince/State ovince/State full_table overed'] = fu considered ovince/State	datetime(fall_table[dill_table[dill_table[dill_table[dill_table[dill_table['P diller ato avo letable['P diller with deaths - letable['Co de value w lecols] fall_table[dill_table[d	['Recovered 'Recovered 'Could double 'Could double 'Province/S' ng values 'Province/S' ng v	ed'].ast untry/Re untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 175.198200 42.590300 -1.023200 64.585263	######################################	replace ountry/i replace tains(' 'Deaths ']].fili) Date Co 04-10 09-09 02-23 -11-10 02-12 04-15	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') onfirmed 65 1620034 289 13493 157751 238214	South', = 'Gree: nd China e] l_table[1_table[186 1419 1637	Recovered 4 0 0 0	na') Ac 1617 13 236	ctive 58 7986 289 3307 6332									
.0]: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	# 2. fill na wind full_table['Reconstruction full_table['Reconstruction full_table['Reconstruction full_table['Counstruction full_table['Counstruction full_table.loc[fit] # 4.2 Greenland full_table.loc[fit] # 4.3 Mainland full_table['Counstruction full_table['Counstruction full_table = full_table = full_table['Action full_table['Action full_table['Proconstruction full_table['Proconstruction full_table] full_table['Proconstruction full_table.samp]	ch 0 overed'] = fu int datatype overed'] = fu inty names countries, re atry Region'] full_table['E china to Chin atry/Region'] ounty wise da al_table[full dvalues and fi confirmed - ve'] = full_ ag values ovince/State' numerical valued', 'Deaths al = full_table overed'] = fu confirmed - ve' = full_ drawe' = full_ ag values ovince/State' numerical valued', 'Deaths al = full_table overed'] = fu unded', 'Deaths al = full_table overed'] = fu unded', 'Deaths confirmed - confirmed	datetime(fall_table[sections, produce/sections, produce/sections] = full_table[sections] =	['Recovered 'Recovered 'Control of the control of t	ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585265 aframe ate) & ((full_ta	######################################	replace ountry/ replace tains(' 'Deaths ']].fil Oute Country Date Country Date Country Date Country Deaths Death	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') onfirmed 65 1620034 289 13493 157751 238214	South', = 'Gree: nd China e] l_table[1_table[186 1419 1637	Recovered A O O Cool] =	na') Ac 1617 13 236	ctive 58 7986 289 3307 6332									
2]: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	# 2. fill na wis full_table['Reco # 3. convert to full_table['Reco # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table.loc[s # 4.3 Mainland of full_table['Coun # 5. Removing co full_table = full Adding Calculated # Active Case = full_table['Acti # filling missin # fill missing s full_table[['Pro # fill missing s full_table[['Pro # fill missing s full_table[cols] # fixing datatys full_table['Reco # Viewing sample full_table.samp] Province/S 22948 277741 Queens 220762 190269 217464 235526 # function to cl def change_val(of for keyl, val full_table[(full Province/State 6141 Hub	ch 0 overed'] = fu int datatype overed'] = fu inty names countries, re ntry/Region'] cull_table['F china to Chir ntry/Region'] ounty wise da al_table[full dvalues and fi confirmed - ive'] = full_ ng values ovince/State' numerical value ovince/State	datetime(fall_table[sections, produce/sections, produce/sections] = full_table[sections] =	['Recovered 'Recovered 'Counces table ['Counce 'State'] == 'Counce	ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 175.198200 42.590300 -1.023200 64.585265 aframe ate) & ((full_ta	######################################	replace ountry/ replace tains(' 'Deaths ']].fil Oute Country Date Country Date Country Date Country Deaths Death	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') onfirmed 65 1620034 289 13493 157751 238214	South', = 'Gree: nd China e] l_table[l_table[186 1419 1637 ey), val e'Hubei' Recovered	Recovered A O O Cool] =	na') Ac 1617 13 236	ctive 58 7986 289 3307 6332									
.0]:	# 2. fill na wing full_table['Reconstruction # 3. convert to full_table['Reconstruction full_table['Reconstruction # 4. fixing Couns # 4.1 renaming of full_table['Couns # 4.2 Greenland full_table.loc[fit] # 4.3 Mainland of full_table['Couns # 5. Removing couns full_table['Couns # 5. Removing couns full_table['Action # Active Case = full_table['Action # fill missing full_table['Procounty # fill missing full_table['Procounty # fill missing full_table['Procounty # fill missing full_table['Reconstruction # fixing datatyfull full_table.sample full_table.sample full_table['Reconstruction # tixing datatyfull full_table['Gull # Viewing sample full_table.sample full_table['full # checking value full_table['full # checking value full_table['full # there is ship # there is ship	ch 0 overed'] = fu int datatype overed'] = fu int datatype overed'] = fu ntry names countries, re ntry/Region'] cull_table['F china to Chin ntry/Region'] ounty wise da al_table[full dvalues and fi confirmed - ive'] = full_ ng values ovince/state ovince/state ovince/state numerical value ovince/state ovince/state covince/state ovince/state covince/state numerical value ned', 'Deaths le full_table overed'] = fu cos covered'] = fu cos covered'] = fu cos covered'] = fu cov	datetime (fall table [fall tab	['Recovered 'Recovered 'Country Country Country	ed'].fil ed'].ast untry/Re untry/Re e counti State']. 'Provinc Active'] ed'].ast Long 40.489700 175.198200 42.590300 -1.023200 64.585265 aframe : ate) & ((full_ta	######################################	replace ountry/i replace tains(' 'Deaths 'Deaths ']].fil 04-10 09-09 02-23 -11-10 02-12 04-15 ble[ref] ovince/i nfirmed 33366	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') onfirmed 65 1620034 289 13493 157751 238214 State']= Deaths F 1068	South', = 'Gree: nd China e] l_table[Deaths F	rland' ', 'Chin 'Recovered 4 0 0 0 0 1 2 1 Active 29612	na') Ac 1617 13 236	ctive 58 7986 289 3307 6332									
2]: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	# 2. fill na with full_table['Reconstruction full_table['Reconstruction full_table['Reconstruction full_table['Reconstruction full_table['Courst # 4.2 Greenland full_table.loc[fith] # 4.3 Mainland full_table['Courst # 5. Removing construction full_table = full_table['Action full_table['Action full_table['Action full_table['Proconstruction full_table['Proconstruction full_table['Proconstruction full_table.sample full_table.	ch 0 overed'] = fu int datatype overed'] = fu intry names countries, re china to Chin chi	Region Regions Lata to avo Latable ['P Iling missin deaths Lata to avo Latable ['P Iling missin deaths Latable ['Co te value w]] = full lues with s', 'Recov Le [cols].f Ill_table [Region And column And	['Recovered 'Recovered 'Could double 'Could double 'Province/s' 'Against the 'Could double 'Province/s' 'Against the 'Could double 'Could double 'Province/s' 'Against the 'Could double	ed'].fil ed'].ast untry/Re untry/Re e counti State']. 'Provinc Active'] ed'].ast Long 40.489700 175.198200 42.590300 -1.023200 64.585265 aframe ate) & (full_ta g	######################################	replace ountry/i replace tains(' 'Deaths 'Deaths ']].fil: 04-10 09-09 02-23 -11-10 02-12 04-15 ble[ref] ovince/i nfirmed 33366	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') onfirmed 65 1620034 289 13493 157751 238214 State']= Deaths F 1068	South', = 'Gree: nd China e] l_table[l_table[3 2048 0 186 1419 1637 ey), val_ ey), val_ datafram	rland' ', 'Chin 'Recovered 4 0 0 0 0 1 2 1 Active 29612	na') Ac 1617 136 236	ctive 58 7986 289 3307 6332 6577		ontains	s('Diamo	ond Prin	cess')	full_	table['(Country/	Reg
	# 2. fill na with full_table['Reconstruction # 3. convert to full_table['Reconstruction # 4. fixing Counstruction # 4. fixing Counstruction # 4.1 renaming of full_table['Counstruction # 4.2 Greenland full_table.loc[fither] # 4.3 Mainland of full_table['Counstruction # 5. Removing counstruction # 5. Removing counstruction # Active Case = full_table['Action # filling missing in fill missing in full_table['Procounty # fill missing in full_table[cols] # fixing datatyment full_table[cols] # fixing datatyment full_table.sample full_table.sample full_table.sample full_table['Reconstruction # Viewing sample full_table['Reconstruction # Viewing sample full_table['Gounstruction # Viewing sample full_table.sample full_ta	ch 0 overed'] = fu int datatype overed'] = fu inty names countries, re china to Chir china	datetime (fall table [fall tab	['Recovered 'Recovered 'Recovered 'State']==' cable['Counce/State']==' cable['Counce/State']==	ed'].ast ed'].ast untry/Re untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585262 aframe : ate) & ((full_ta) 7 2020-0 s with County of the	######################################	replace ountry/i replace tains(' 'Deaths 'Deaths ']].fil: 04-10 09-09 02-23 -11-10 02-12 04-15 ble[ref] ovince/i nfirmed 33366	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') onfirmed 65 1620034 289 13493 157751 238214 State']= Deaths F 1068	South', = 'Gree: nd China e] l_table[l_table[3 2048 0 186 1419 1637 ey), val_ ey), val_ datafram	rland' ', 'Chin 'Recovered 4 0 0 0 0 1 2 1 Active 29612	na') Ac 1617 136 236	ctive 58 7986 289 3307 6332 6577].str.c	ontains	s('Diamo	ond Prin	cess')	full_	table['(Country/	Reg
	# 2. fill na with full_table['Reconstruction full_table['Reconstruction full_table['Reconstruction full_table['Courst 4.1 renaming of full_table['Courst 4.2 Greenland full_table.loc[if # 4.3 Mainland of full_table['Courst 5. Removing construction full_table = full_table['Action full_table['Action full_table['Proconstruction full_table['Proconstruction full_table['Proconstruction full_table['Reconstruction full_table.sample full_table.sample full_table.sample full_table.sample full_table.sample full_table['Reconstruction full_full_table.sample full_table.sample ful	ch 0 overed'] = fu int datatype overed'] = fu int datatype overed'] = fu countries, re overy/Region'] full_table['F china to Chir overy/Region'] ounty wise da confirmed - ove'] = full_ or values ovince/state' oumerical value ovince/state ovince	datetime(fall_table[fall_table[fall_table[fall_table]] Province/S The fall_table[fall_table[fall_table[fall_table]] Region Thiopia 9 Thiopia 11 Thiopia 9 Thiopia 11 Thiopia 9 Thiopia 11 Thiopia 9 Thiopia 11 Thiopia 9 Thiopia 11 T	['Recovered ['Recovered ['Recovered ['Recovered ['Country of the continued of the covered ['Country of the covered ['Coun	ed'].ast ed'].ast untry/Re untry/Re counti State']. d d] - full 'Provinc Active'] ed'].ast Long 40.489700 175.198200 42.590300 -1.023200 64.585265 aframe : ate) & ((full_ta)	######################################	replace ountry/i replace tains(' 'Deaths 'Deaths ']].fil: 04-10 09-09 02-23 -11-10 02-12 04-15 ble[ref] ovince/i nfirmed 33366	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') onfirmed 65 1620034 289 13493 157751 238214 State']= Deaths F 1068	South', = 'Gree: nd China e] l_table[l_table[3 2048 0 186 1419 1637 ey), val_ ey), val_ datafram	rland' ', 'Chin 'Recovered 4 0 0 0 0 1 2 1 Active 29612	na') Ac 1617 136 236	ctive 58 7986 289 3307 6332 6577].str.c	ontains	s('Diamo	ond Prin	cess')	full_	table['(Country	Reg
2]: 1 2]: 1 3]: 1 3]: 1 4]: 1 4]: 1 4]: 1	# 2. fill na with full_table['Reconstruction # 3. convert to full_table['Reconstruction # 4. fixing Counstruction # 4.1 renaming of full_table['Counstruction # 4.2 Greenland full_table.loc[if # 4.3 Mainland of full_table['Counstruction # 5. Removing counstruction # 5. Removing counstruction # Adding Calculated # Active Case = full_table['Action # fill missing if full_table[['Proconstruction # fill missing if full_table[['Proconstruction # fill missing if full_table[cols] # fixing dataty full_table['Reconstruction # Viewing sample full_table.sample full_table.sampl	ch 0 overed'] = fu int datatype overed'] = fu inty names countries, re china to Chin chin	datetime(fall_table[fall_table[fall_table[fall_table]] province/S da = full_t province/S da = full_t ata to avo table['P lling missir deaths - table['Co te value w] = full lues with s', 'Recov te [cols].fall_table[lues with s', 'Recov te [cols].fall_table[lues with s', 'Recov table['D tabl	['Recovered ['Recovered ['Recovered ['Recovered ['Cou able ['Cou a	ed'].fill ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585263 aframe : ate) & ((full_ta)	######################################	replace ountry/ replace tains(' 'Deaths 'Deaths ']].fill 'O9-09 02-23 -11-10 02-12 04-15 ble[ref] ovince/ info fi d Prince	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') onfirmed 65 1620034 289 13493 157751 238214 State']= Deaths F 1068	South', = 'Gree: nd China e] l_table[l_table[3 2048 0 186 1419 1637 ey), val_ ey), val_ datafram	Recovered A O O O Cool] = O Active 29612	na') Additional of the second	ctive 58 7986 289 3307 6332 6577].str.c	ontains	s('Diamo	ond Prin	cess')	full_	table['(Country/	Reg
2]: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	# 2. fill na with full_table['Reconstruction full_table['Reconstruction full_table['Reconstruction full_table['Counstruction full_table['Counstruction full_table.loc[fit] # 4.2 Greenland full_table.loc[fit] # 4.3 Mainland full_table['Counstruction full_table['Counstruction full_table]'Counstruction full_table = full_table['Action full_table['Proconstruction full_table['Proconstruction full_table['Proconstruction full_table]'Reconstruction full_table['Reconstruction full_table]'Reconstruction full_table['Reconstruction full_table]' # Viewing sample full_table['full_table]' # Viewing sample full_table['full_table]' # Viewing sample full_table['full_table]' # Viewing sample full_table['full_table]' # Checking value full_table # Checking value full_table # Latest cases is ship_rows = (full_table) # Latest cases is ship_latest.st # ship_latest.st	ch 0 overed'] = fu int datatype overed'] = fu inty names countries, re china to Chin chin	datetime(fall_table[fa	['Recovered covinces cable ['Counces cable ['Counce seable]']] Lat 2.45000 2.469800 2.469800 2.469800 2.469800 2.4001	ed'].fill ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585265 aframe : ate) & ((full_ta d) 7 2020-0 s with Countain for the counta	Ina(0) Sype('intage of content o	replace ountry/ replace tains(' 'Deaths 'Deaths ']].fil '09-09 02-23 -11-10 09-09 02-15 ble[ref] ovince/ ofirmed 33366 report info f d Prince 20-01-22 20-01-22	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') 289 13493 157751 238214 Col]==k State']= Deaths F 1068	South', = 'Gree: nd China e] l_table[1_table[3 2048 0 186 1419 1637 ey), val ='Hubei' Recovered 2686 datafram full_tab	recovered Recovered Recovered A O O O O O O O O O O O O	na') Additional of the second	ctive 58 7986 289 3307 6332 6577].str.c	ontains	s('Diamo	ond Prin	cess')	full_	table['(Country	Reg
.0]:	# 2. fill na win full_table['Reco # 3. convert to full_table['Reco # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table.loc[i # 4.3 Mainland of full_table['Coun # 5. Removing co full_table = ful Adding Calculated # Active Case = full_table['Acti # fill missing if fill missing if fill missing if fill missing if full_table[cols; # fixing dataty full_table[cols; # fixing dataty full_table['Reco # Viewing sample full_table['Reco # Viewing sample full_table['Gult Province/S 22948 277741 Queens 220762 190269 217464 235526 # function to cl def change_val(o for key, val full_table[(full	ch 0 overed'] = fu int datatype overed'] = fu inty names countries, re china to Chin chin	datetime(fall_table[fa	['Recovered 'Recovered 'Continues Cable 'Continues Cable 'Continues Cable 'Continue Cable 'Continue Cable 'Continue Cable	ed'].fill ed'].ast untry/Re 'Greenla untry/Re e counti State']. 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585262 aframe : ate) & ((full_ta to ported contain	### Suppose of the control of the co	replace ountry/ replace tains(' 'Deaths 'Deaths ']].fil. 09-09 02-23 -11-10 09-09 02-23 -11-10 02-12 04-15 ble[ref_ ovince/i nfirmed 33366 report info f. d Prince	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') onfirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068	South', "Gree! and China e] l_table[l_table[1419 1637 ey), val Hubei' Recovered 2686 datafram full_tab	nland' ', 'Chin 'Recovered 'Recovered 'A 0 0 0 0 0 1 29612	na') red' val red 0 0	ctive 58 7986 289 3307 6332 6577		ontains	s('Diamo	ond Prin	cess')	full_	table['(Country	Regi
2]: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	# 2. fill na win full_table['Recc # 3. convert to full_table['Recc # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table.loc[i # 4.3 Mainland of full_table['Coun # 5. Removing co full_table = ful Adding Calculated # Active Case = full_table['Acti # filling missing if fill missing if fill missing if full_table[['Pro # fill missing if full_table[cols: # fixing dataty; full_table['Recc # Viewing sample full_table.sampl Province/S 22948 277741 Queens 220762 190269 217464 235526 # function to cl def change_val(of for key, val full_table[(full Province/Stat 6141 Hub Removing Outliers # there is ship # this is an out # ship rows con ship rows = (full # ship ship = full_table # Latest cases is ship_latest = sh # ship_latest.si	ch 0 overed'] = fu int datatype overed'] = fu int datatype overed'] = fu overed'] = full overed'] =	datetime(fall_table[fa	['Recovered 'Recovered 'Covinces Cable 'Cou 'Cou	ed'].fill ed'].ast untry/Re 'Greenla untry/Re e counti State']. 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.58526: aframe : ate) & (((full_tall) 7 2020-0 s with Coil remorported colored col	######################################	replace ountry/ replace tains(' 'Deaths 'Deaths ']].fil 04-10 09-09 02-23 -11-10 02-12 04-15 ble[ref ovince/ nfirmed 33366 report info f d Prince 20-01-22 20-01-22 20-01-22 20-01-22 20-01-22 20-01-22 20-01-22	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') 289 13493 157751 238214 Col]==k State']= Deaths F 1068	South', = 'Gree:	Recovered Recovered A O O O O Person Recovered A O O O O O O O O O O O O	na') Add 1617 13 156 236 val val	ctive 58 7986 289 3307 6332 6577 Active 0 0 0 0 0 0 0].str.c	ontains	s('Diamo	ond Prin	cess')	full_	table['(Country	Reg
2]: 1 3]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 4]: 1 5 1 6 1 7 1 8 1 9 1 10 1 11 1 12 1 13 1 14 1 15 1 16 1 17 1 18 1 19 1 10 1 11 1 12 1 13 1 14 </td <td># 2. fill na win full_table['Recc # 3. convert to full_table['Recc # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table.loc[f] # 4.3 Mainland of full_table['Coun # 5. Removing co full_table['Acti # 5. Removing co full_table['Acti # fill missing full_table['Pro # fill missing full_table['Pro # fill missing full_table[cols] # fixing datatyfull_table['Recc # Viewing sample full_table.sampl Province/S 22948 277741 Queens 220762 190269 217464 235526 # function to cl def change_val(of for key, val full_table[(full) # checking value full_table[(full) # checking value full_table[(full) # ship ship = full_table # ship_latest.si # ship_latest.si # skipping rows full_table = full full_table Province/S 0 1 2 3 4 315005 315006 315007 315008</td> <td>ch 0 overed'] = fu int datatype overed'] = fu int datatype overed'] = fu overed'] = full overed'] =</td> <td>datetime (final_table [inal_table [inal_ta</td> <td>['Recovered 'Recovered 'Count Count Co</td> <td>ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585263 aframe ate) & (((full_ta g)</td> <td>######################################</td> <td>replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat</td> <td>('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736</td> <td> South', </td> <td>recovered Recovered Recovered Recovered A O O O O O O O O O O O O</td> <td>red 13 156 236 val</td> <td>ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267</td> <td></td> <td>ontains</td> <td>s('Diamo</td> <td>ond Prin</td> <td>cess')</td> <td>full_</td> <td>table['C</td> <td>Country</td> <td>Regi</td>	# 2. fill na win full_table['Recc # 3. convert to full_table['Recc # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table.loc[f] # 4.3 Mainland of full_table['Coun # 5. Removing co full_table['Acti # 5. Removing co full_table['Acti # fill missing full_table['Pro # fill missing full_table['Pro # fill missing full_table[cols] # fixing datatyfull_table['Recc # Viewing sample full_table.sampl Province/S 22948 277741 Queens 220762 190269 217464 235526 # function to cl def change_val(of for key, val full_table[(full) # checking value full_table[(full) # checking value full_table[(full) # ship ship = full_table # ship_latest.si # ship_latest.si # skipping rows full_table = full full_table Province/S 0 1 2 3 4 315005 315006 315007 315008	ch 0 overed'] = fu int datatype overed'] = fu int datatype overed'] = fu overed'] = full overed'] =	datetime (final_table [inal_table [inal_ta	['Recovered 'Recovered 'Count Count Co	ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585263 aframe ate) & (((full_ta g)	######################################	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267		ontains	s('Diamo	ond Prin	cess')	full_	table['C	Country	Regi
.0]:	# 2. fill na win full_table['Recc # 3. convert to full_table['Recc # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table.loc[i # 4.3 Mainland of full_table['Coun # 5. Removing co full_table['Coun # 5. Removing co full_table = ful Adding Calculated # Active Case = full_table['Acti # fill missing in full_table['Pro # fill missing in full_table['Necc # Viewing sample full_table['Recc # Viewing sample full_table.sample full_table.sample full_table.sample full_table.sample full_table.sample full_table.sample full_table.sample full_table Province/Stat # there is ship # there is ship # this is an oun # ship rows = (full # checking value full_table # there is ship # there is ship # this is an oun # ship latest = sh # ship lat	covered'] = function of the covered'] = function of the countries, restry/Region'] countries, restry/Region'] countries, restry/Region'] country wise data of the country with ships of the	datetime (final_table [inal_table [inal_ta	['Recovered 'Recovered 'Covinces Cable 'Covered Cable 'Covered Cable Covered Cable Covered Cable Covered Cable Cab	ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585263 aframe ate) & (((full_ta g)	######################################	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 Active 0 0 0 0 0 0 0 0 0 0 0 0 0 0].str.c	ontains	s('Diamo	ond Prin	cess')	full_	table['(Country	Regi
.4]:	# 2. fill na win full_table['Recc # 3. convert to full_table['Recc # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table.loc[f] # 4.3 Mainland of full_table['Coun # 5. Removing co full_table['Coun # 5. Removing co full_table = ful Adding Calculated # Active Case = full_table['Acti # fill missing n fill missing n full_table[['Pro # fill missing n cols = ['Confirm full_table[cols] # fixing datatyn full_table['Recc # Viewing sample full_table.samp Province/S 22948 277741 Queens 22948 277741 Queens 22948 277741 Queens full_table[(full full_table](full full_table](full full_table](full # checking value full_table](full # checking value full_table](full full_table](full full_table] # ship ship ship = full_tabl # ship latest = sh # ship_latest = sh # sh	covered'] = function of the fu	datetime (final_table [inal_table [inal_ta	['Recovered 'Recovered 'Count Count Co	ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585263 aframe ate) & (((full_ta g)	######################################	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267].str.c	ontains	s('Diamo	ond Prin	cess')	full_	table['(Country	Regi
.0]:	# 2. fill na wis full_table['Reco # 3. convert to full_table['Reco # 4. fixing Coun # 4.1 renaming of full_table['Cour # 4.2 Greenland full_table.loc[s # 4.3 Mainland of full_table['Cour # 5. Removing co full_table = ful Adding Calculated # Active Case = full_table['Acti # filling missing s fill missing s full_table[['Pro fill missing s full_table[cols] # fixing datatys full_table['Reco # Viewing sample full_table.samps Province/S 22948 277741 Queens 22948 277741 Queens 6141 Hub Removing Outliers # there is ship # this is an oun full_table[(full) Province/State # ship_latest.si # ship ship = full_table # ship ship = full_table # ship latest.si # skipping rows full_table = full full_table Province/State 1 2 3 4 4 315005 315006 315007 315008 315007 315008 315009 308470 rows × 9 co full_table.isna province/State Province/State O 1 2 3 4 315005 315006 315007 315008 315009	confirmed - confir	datetime (final_table [inal_table [inal_ta	['Recovered 'Recovered 'Count Count Co	ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585263 aframe ate) & (((full_ta g)	######################################	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267].str.c	ontains	s('Diamo	ond Prin	cess')	full_	table['C	Country	Regi
.4]:	# 2. fill na win full_table['Recc # 3. convert to full_table['Recc # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table.loc[i # 4.3 Mainland of full_table['Coun # 5. Removing co full_table = ful Adding Calculated # Active Case = full_table['Acti # filling missing in fill missing in fill missing in fill missing in fill missing in cols = ['Confirm full_table[cols] # fixing dataty full_table['Recc # Viewing sample full_table.sample full_table.sample full_table.sample full_table[(full Province/Stat 6141 Hub Removing Outliers # there is ship # there is ship # this is on con ship rows = (full # ship ship = full_table # ship_latest.si # ship latest.si	continued - contin	datetime (final_table [inal_table [inal_ta	['Recovered 'Recovered 'Count Count Co	ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585263 aframe ate) & (((full_ta g)	######################################	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267		ontains	s('Diamo	ond Prin	cess')	full_	table['C	Country	Regi
.0]: .3 .4]: .4]: .5 .6]: .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	# 2. fill na win full_table['Recc' # 3. convert to full_table['Recc' # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table.loc[if] # 4.3 Mainland of full_table['Coun # 5. Removing of full_table['Coun # 5. Removing of full_table['Acti' # fill missing if fill missing if fill missing if full_table['Procises fill missing if full_table['Procises fixing dataty; full_table['Recc' # Viewing sample full_table.sample full_table.sample full_table.sample full_table.sample full_table.sample full_table['full # checking value full_table['full # checking value full_table['full # checking value full_table] Province/State fixing dataty; full_table full full full table full full full full full full full fu	ch 0 overed'] = fu int datatype overed'] = fu int y names overed'] = fu intry names countries, re otry/Region'] cull_table['F china to Chin ounty wise da il_table[full dvalues and fi confirmed - ive'] = full_ ag values overed'] = fu intry/Region'] cull_table[full dive'] = full_ ag values overed', 'Deaths e rows inded', 'Deaths e rows inded', 'Deaths covered'] = fu cov	datetime (final table [final ta	['Recovered 'Recovered 'Recovered 'Counces Cable 'Counces Cable 'Counce	ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585263 aframe ate) & (((full_ta g)	######################################	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267		ontains	s('Diamo	ond Prin	cess')	full_	table['(Country	Regi
.0]:	# 2. fill na win full_table['Reco # 3. convert to full_table['Reco # 4. fixing Coun # 4.1 renaming full_table['Coun # 4.2 Greenland full_table.loc[if # 4.3 Mainland of full_table['Coun # 5. Removing co full_table['Coun # 5. Removing co full_table['Acti # fill missing in full_table['Pro # fill missing in full_table['Pro # fill missing in full_table[cols: # fill missing in full_table[cols: # fill missing in full_table['Neco # Viewing sample full_table['Reco # Viewing sample full_table.sample full_table.sample full_table.sample full_table['full # Checking value full_table[(full full_table](full full_table](full full_table](full full_table # there is ship # this is an oun ship_rows = (full # ship ship ship = full_table # Latest cases is # ship_latest.si # ship_lat	continued - contin	datetime (fall table [fall tab	['Recovered	ed'].ast untry/Re 'Greenla untry/Re e counti State']. d] - full 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200 42.590300 -1.023200 64.585263 aframe ate) & (((full_ta g)	######################################	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267].str.C	ontains	s('Diamo	ond Prin	cess')	full_	table['C	Country	Regi
.0]:	# 2. fill na wif full_table['Reco # 3. convert to full_table['Reco # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table['Coun # 4.3 Mainland of full_table['Coun # 5. Removing co full_table = ful Adding Calculated # Active Case = full_table['Acti # filling missing not	continued of the contin	datetime (fall table [fall tab	['Recovered 'Recovered 'Recovered 'Coulomble 'Cou	ed'].ast untry/Re 'Greenla untry/Re e counti State']. 'Provinc Active'] ed'].ast Long 40.489700 175.1982	######################################	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267].str.C	ontains	s('Diamo	ond Prin	cess')	full_	table['(Country	Regi
.0]:	# 2. fill na win full_table['Recc # 3. convert to full_table['Recc # 4. fixing Coun # 4.1 renaming of full_table['Coun # 4.2 Greenland full_table.loc(s # 4.3 Mainland of full_table['Coun # 5. Removing co full_table = fui Adding Calculated # Active Case = full_table['Acti # fill missing not full_table['Pro # fill missing not full_table.sample full_table.sample full_table.sample full_table.sample full_table.sample # there is ship # there is ship # there is ship # this is an out # ship rows cons ship rows = (full # checking value full_table[(full)	continued of the contin	datetime (fall_table [fall_table [fall_tab	['Recovered 'Provinces cable ['Cou cable [ed'].fill ed'].ast untry/Re 'Greenla untry/Re e counti State']. 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200	### Sype ('int's gion')	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267		ontains	s('Diamo	ond Prin	cess')	full_	table['C	Country	Reg
.0]:	# 2. fill na win full_table['Recc' # 3. convert to full_table['Recc' # 4. fixing Count # 4.1 renaming of full_table['Count # 4.2 Greenland full_table.loc'] # 4.3 Mainland of full_table['Count # 5. Removing count # 5. Removing count # 65. Removing count full_table['Province/State Count full_table] # 66. Count full_table # 66. Count full_table # 66. Count full_table # 66. Removing count full_table # 67. Removing count full_table # 67. Removing count full_table # 68. Removing count full_table # 69. Remo	continued - contin	datetime (final table [final ta	['Recovered	ed'].fill ed'].ast untry/Re 'Greenla untry/Re e counti State']. 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200	### Sype ('int's gion')	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267].str.c	ontains	s('Diamo	ond Prin	cess')	full_	table['C	Country	Regi
	# 2. fill na win full_table['Recc # 3. convert to full_table['Recc # 4. fixing Coun # 4. fixing Coun # 4. fixing Coun # 4. 2 Greenland full_table['Coun # 4.2 Greenland full_table['Coun # 5. Removing co full_table['Coun # 5. Removing co full_table['Coun # 5. Removing co full_table['Coun # fill missing no full_table['Pro # fill missing no full_table['Recc # viewing sample full_table['Recc # viewing sample full_table.sample full_table full_table full_table full_table Province/State Count Country/Region 1	covered'] = function of the fu	datetime (final table [final ta	['Recovered	ed'].fill ed'].ast untry/Re 'Greenla untry/Re e counti State']. 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200	### Sype ('int's gion')	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267].str.c	ontains	s('Diamo	ond Prin	cess')	full_	table['C	Country/	Reg
	# 2. fill na win full_table['Reco # 3. convert to full_table['Reco # 4. fixing Coun # 4. fixing Coun # 4. fixing Coun # 4. 2 Greenland full_table['Coun # 5. Removing co full_table['Coun # 5. Removing co full_table = ful Adding Calculated # Active Case = full_table['Acti # fill missing no full_table['Neco # fill missing no full_table['Reco # fill missing no full_table['Reco # fixing datatyn full_table['Reco # fixing datatyn full_table['Neco # viewing sample full_table.sampl full_table.sampl full_table.sampl # fixing datatyn full_table.sampl full_table['Reco # fixing datatyn full_table.sampl full_table.sampl full_table.sampl # there is ship # there is	covered'] = furity and sovered'] = furity and	datetime (final table [final ta	['Recovered	ed'].fill ed'].ast untry/Re 'Greenla untry/Re e counti State']. 'Provinc Active'] ed'].ast Long 40.489700 153.025100 175.198200	### Sype ('int's gion')	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267		ontains	s('Diamo	ond Prin	cess')	full_	table['(Country	Reg
	# 2. fill na win full_table['Recc # 3. convert to full_table['Recc # 4. fixing Coun # 4. fixing Coun # 4. fixing Coun # 4. 2 Greenland full_table['Coun # 4. 3 Mainland full_table['Coun # 5. Removing co full_table = ful Adding Calculated # Active Case = full_table['Acti # fill missing if full_table['Pro # fixing dataty full_table['Recc # Viewing sample full_table['Recc # Viewing sample full_table['Recc # Viewing sample full_table['Recc # fixing dataty full_table Full # Viewing sample full_table['Recc # function to cl # fixing dataty full_table.sample # there is ship # there is ship # there is ship # this is an oun # ship rows com # ship rows com # ship rows com # ship latest si # skipping rows full_table	covered'] = furity names overed'] = furity named overed'] = furity named overed'] = furity named', "but overed'	deaths - table['P lling missir deaths - table['P lling missir deaths - table['Co te value w]] = full_t deaths - table['Co te value w]] = full deaths - table['Co te value w]] = full deaths - table['Co te value w]] = full deaths - table['Co te value w]] = full deaths - table['D	['Recovered 'Recovered 'Counces Cable 'Counces Cable 'Counce State == " 'Counce 'Counce State == " 'Counce State == " 'Counce 'Counce State == " 'Counce State == " 'Counce 'Counce State == " 'Counce State == " 'Counce 'Counce State == " 'Counce State == " 'Counce 'Counce State 'Counce 'Counce State 'Counce '	ed'].sst antry/Re 'Greenla antry/Re e counti State']. d full 'Provinc Active'] ed'].ast Lone 40.48970 153.02510 42.59030 -1.02320 64.58526 aframe : ate) & ((full_ta g	### Sype ('int's gion')	replace ountry/? replace tains(' 'Deaths 'Jeaths 'Jeat	('Korea, Region'] ('Mainla ,')!=Tru '] - ful lna('') lna('') lna('') confirmed 65 1620034 289 13493 157751 238214 Col]==k State']= Deaths F 1068 confirmed confirmed 33736	South',	recovered Recovered Recovered Recovered A O O O O O O O O O O O O	red 13 156 236 val	ctive 58 7986 289 3307 6332 6577 **/State' 0 0 0 0 0 0 697520 535 9786 333267].str.c	ontains	s('Diamo	ond Prin	cess')	full_	table['(Country/	Reg