	Final Exam BSP2333
-	Question
Ca	) i.) Missing Completely at Random (MCAR)
	ii) Missing at Random (MAR)
	iii) Missing not at Random (MNAR)
	as the finish along amplitude and finish a proof of
(b)	i) MCAR - means the data is missing due to completely random
	reasons. There is no specific structure as to why data
	might be missing.
	ii) MAR - means the data is missing relative to the obs
	observed data.
y	iii) MNAR - means the data will be missing based on the
	column itself.
(c)	Missing data is defined as the data value that is not stored for
(८)	a variable in- the observation. The problem missing data is relative
(८)	Missing data is defined as the data value that is not stored for a variable in-the observation. The problem missing data is relative common in almost all research.
	a variable in- the observation. The problem missing data is relative common in almost all research.
	a variable in- the observation. The problem missing data is relative common in almost all research.  i) Imputation
	a variable in- the observation. The problem missing data is relative common in almost all research.
	a variable in- the observation. The problem missing data is relative common in almost all research.  i) Imputation
(ଧ)	a variable in-the observation. The problem missing data is relative common in almost all research.  i) Imputation  ii) Remove data
લ)	i) Imputation: Depending why the data are missing, imputation
(e)	i) Imputation  i) Imputation  ii) Imputation  ii) Imputation: Depending why the data are missing, imputation  methods can deliver reasonably reliable result.
(e)	i) Imputation  i) Imputation  ii) Imputation  ii) Imputation: Depending why the data are missing, imputation  methods can deliver reasonably reliable result.  ii) Remove data: When dealing with data that is missing at
(e)	i) Imputation: Depending why the data are missing, imputation

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r				8:1-1, 10,	
t	) i) Find columns with	rh mis	ssing data		
	ii) Get a list of	f colum	s of missin	g data	Cont of the
	111) Get the number	er tota	l of missi	ng data in	Data Frame.
	iv) Get the numb				
	V) Remove columns				
	of missing data	•			n e tour f. Ya
	per l'application de la	mpTa PAR	, with the		1 07027631
	Question 2			-1 1	an min a
(a)	i) Contradictory val	465	1th 161 m	d ner som	
	ii) Mistabeled valy	es.	1	· NIO	
	iil) Erroneous values	sd	Play stal.	UMT ENVIR	- 4 2 7 W 1 A
	iv) Missing values			- 71017	many) .
	V) Don't care value				
	, , , , , ,			e .	
(P)	i) pd. concat ([df]	df2]	)		
3.15	and who wishaut so	pr. jatra	o 187	with 2	Washing and
- Asida	or Name his shize in	Age	Height	Pace	المراعات الم
0	L. Messi	34	170	85	1. 1.39.123
1	R. Le wandowski	32	185	78	
2	C. Ronaldo	36	187	87	mineral (1.00
3	Neymar Jr	29	175	91	b Jamas Gi
4	K. Mbappe	22	182	97	
5	H. Kane	27	188	70	
6	M. Salah	29	175	90	1. Harwall (1 13)
7.	K. Benzema	33	185	76	Line
	Transfer to the same of the sa	the state of	i li le i	West 2-36 - 1 196-1	4

Oyestion 2	SD	20036 N	JG JI	E HA	10		
	Age	Height	Pacc	Weight	r	Position	2 d
O. N. C. Ronaldo	36	187	87	83		ST	(
1. 2 Neymar. Jr		175	91	68		LW	
	7.50	1 1 2	vr v	" ( _ d		794 L 19	- 1
ii) (left join)	St, St 4	or 1719 = 1, 1 1				1101	144
- 40 / 1	-	2.04000		bu -		<u> </u>	1
A Name	Age	Height	Pac			ition	
L. Messi	34	170	85			aN	
1. R. Le wandowski	32	185	7.			VaN	الواخلا
2. C. Romaldo	36	187	8	7		ST	_
3. Neymar Jr	29	175	C		7-7-8	LW	
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•	Edf2,d	f 3] him =	= 'outer'	) - 10	isk	151 - 1	
•	Edf2,d	f 3] him =	JUL STE	124	ask-		
·	Age	f 37 him =	Pace	) Welgh	ot	Position	
iv) pd. merge (	Age 34	10-	Pace 85	Welgh 72		Nan	
iv) pd. merge (	Age 34	Height 170 185	Pace 85	Welgh 72 81		NaN NaN	
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Name O L. Messi I R. Lenandowski	Age 34 32 36	Height 170 185	Pace 85 78 87 91	Welgh 72 81 8: 68 Na	3 8 N	Nan Nan ST Lr	r KM n
Name  Name  Name  Name  Nessi  R. Lenandowski  C. Ronaldo  Neymar Jr	Age 34 32 36 29	Height 170 185 187	Pace 85 78 87	Welgh 72 81 83	3 8 N	Nan Nan ST Lr	r KM n
Name O L. Messi I R. Lenandowski C. Ronaldo Neymar Jr M. Salah	Age 34 32 36 29	Height 170 185 187 185 175	Pace 85 78 87 91	Welgh 72 81 8: 68 Na	3 8 N	Nan Nan ST Lr	r KM n
Name  Name  Name  Name  Nessi  R. Lenandowski  C.Ronaldo  Neymar Jr  M.Salah  K.Benzama	Age 34 32 36 29	Height 170 185 187 185 175	Pace 85 78 87 91 90 76	Welgh 72 81 83 68 Na Na	3 8 .N .N	Nan Nan ST Lh RHO CF	r KM
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(4)	Question		
(4)		Scrapping	laws amount at
	1) MEP SC	raping is extraction	g a large amount of
	ii) was	data from online	tools to read , copy and
	ctore -	the contract of the	vebsites for indexing purpos
	310/6	San Pie San	
(6)	Web co	Craping	March To Cart To Care
	i) Compa	iring Prices	MEN - 1346 - 131 House J. F.
	ii) Stock	Market Analysis	Rillian RC Town 1
		et Research for n	
	Web cra	wling comme	a confident from 150 150
	i) Perform	ming Website analysi	.5
	ii) Monito	ring SEO analysis	A A A A A A A A A A A A A A A A A A A
	iii) Genera	ting search engine	results.
F	Powchart	15 (10.0)	K. Se William S. 1
(c)		Start	in de bolino 11 d
-	THE BYY.	7.1181	Comment of the contract of the
	Cross King	The Visit of the	186 to the to
	4.5	Visit all the	[2 to or fitting of square
		website (URLs)	
	G. Harris	the soul of the	Web Crawling
	V.4 3	Parse web pages	E 1825/1 34
	VAV	Build Hist	R. Lirraderior S.
	11.25	SEE VIV 635	to delice of the second
		Extracing all the	
	44-	Indexing data pages	
		Wind Jan 3	
		Store in databa	ase.
		f f page 1/2 c	
1	0.07/209	The region of the second	to had a solar of
		V	

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	First, find out the target website and collect all the URLs.
F.	Then, parsing web page and indexing pages on the content.
	Lastly, stores in database.
(A)	
	Live sales and a final sales
(9)	Differences between web scraping & web crawling.
	Web see scraping Web crawling.
	-Indexing pages based on the
	content
	- Extracing information from - Indexing pages of the
	the contents of the pages contents
	- Scraper bots - crawler bots.
	-used by small and large business.  -Performs only by large corporations
	a transmission with the last a state of the
	Guestion 4
(a)	The business of client was confronted with highly competitive
.+	market where their competitions frequently changed their
	prices and amount assortment, which was very difficult to track,
1.36	considering the large scope of products to be monitored
(40)	across very different product care categories.
	what were the self- that a street of attacked
(b)	The client needs to analyze their competitor's data to
	expand their own assortment and stay competitive.
	The client was in need of reliable information on
	Competition competitions actions consider the
	competition competitors' actions regarding how they run campaigns and promotions.
	Company will bramorians.
10 m	

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	Guestion 4	
(c)	The Jan Camp Car Miles Miles From Co.	Let Elson Jakon Honey
×7(0)	Visit the target website	Jan 19 19 19 19 19 19 19 19 19 19 19 19 19
	and the second s	er sauti e places
		(4)
	Collect URLs of the pages	
	Land and Carlo J. The grade and wife	million that we have the fair the
		Strippers C 1997
	Get the HTML of the page	CORNELL TO THE SECTION OF
		Web Scraping
	The engine works With the print	Leodemotri enigeris -
	Use locators to find the data	out to attitud of
	in the HTML	stad payand - 1
4	in the same and who en a V9- in example	Lesses for Home laid
	Storing the data in	
	CSV file.	crise & materials
20/	Reports alphabet they becomes and the	ils to essent of the
	First, we need find out the target	website and visit it.
2011	Then, collect the URLs of the pages	where you want to
	extract the data. Third, make a	request to this URLs
	to get the HTML pages and u	use locators to find
	The diffy in the HTML. Lastly	, storing the data in
	CSV file.	
CIN	o maintenance that contrates of	Tabert trails sty (0)
(9)	(1) 0 (1)	alayo Calarin biyoxa
	(i) Parse Hub.	is and tooks of
	The wall that grant was another to	of thomas of the control of
	S1942-04-10	Las campagne
	그 그 그 그 그는 그는 그를 가장하는 것이 가장하는 것으로 그 가장이 그 그 사람이 되었다.	PARENT GUN I

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	avestion 4
(e)	i) JSON file
	ii) XLSX format.
( <del>f</del> )	i) Stay up to date with the price trends.
	- The client are continually changing prices of product
	in an attempt to stay ahead of the competitors.
	s. of a. set a surjetur repeat of the set is mortest -
	ii) Look at all the details.
	- The client can check all the details like
	shipping costs, price, service gura guaranteer and
	the popularity of the retailer retailer others competitors as
	Well Land Therefore with peters with the
	Well:
	Question 5
(a)	(i) Pandas Matpholib
(3)	(ii) Plotly Express
	(iii) Seaborn
	(iv) Altair (v) Bokeh
	2 March March 1 March Cal
	Durane Cin
(4)	(ii) (ii) 1. Storytelling - Storytelling allows us to share our
(4)	visualization and story with others.
	VISAAIIZALIOU MIA STOLY WILL STORY
	2. Index Identify emerging trends on community.
	These trends make more sense when they are
	graphically represented.

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	Guestion 5
(b)	i) To find cut the effects of New Walmart
	stores number on the United States economy.
	ii) 1) Consumers are looking for one
	(ii) D. Conserver and Indian Conservation
,	(ii) 1) Consumers are looking for value.  - Walmart is one of the largest retailers in the world for
	a reasons it capitalizers on the consumers desire for value.
	and elected our live design on the elected and
	2) The succed in eCommerce.
	- Ecommerce makes walmart to grow better,
1	and increasing the walmart stores.
->	1
	ii) This is because the period financial crisis happen
	an 1996 and 2006 and decrease the walment store.
	Labyer a gettid I delle the
	A GARAGE ATTENDED
	iv) i) Income
	ii) Socio economic status
	iii) Education
	- single of its early willerent - points part 1 82 (1) (A)
	as the order was nother thereby.
-	The state of the s