Ass	ia	m	ent	_
	0		U	

	Assign &	ent 1 million and a second		
	Assign ent 1			
	Difference between st	ar and snowplake schema.		
	1 1/ 7	Snowplake schema		
a.	In star schema the	But in snowplake schema,		
		the pact table dimension		
	table are obtained.	table and sub dimension		
	contained.	table are contained.		
at at a y	have des oftends	the state of the s		
<b>b</b> .	This is a top-down	This is a bottom up model.		
Tury the	model 1 hand on the	0.77711 05 20161		
The same of the sa	<u></u>			
· ·	Vies more space.	Uses less space!		
	1 Por Home and Hollow	y the state of the		
di.	7+ takes less time	It take more time for		
0 15 (1		execution of quenes.		
12 1 1 1	quenes.	1 12 42 - 6.		
N.	V	with Asia Melant,		
	In ctar schema, no	Both normalization and		
0	normalization in notused	demormalization is used.		
171 1 7	realisment with the	a grant for the land		
1"1	Its design is very	7ts design is very complex.		
y 22 \	simple.	at the second of		
P	State any 4 applica	tions of DWH.		
<del>O</del> ns	i) Business intelligence - 18	7)		
	Data workhoving is	used to support BI tools		
	that helps organizations	make data-driven decisions. Bu		
	consolidating data from	different resources into a		
	single ocpository we as	et a unitied view at business		
	operations and enables	organizatione to perform		
	,	R EDUGATIONAL USE		

Check 1880 by 10 miles 1884 that Control and the Control	
	complex analysis and exporting.
	Costom Relationship Management (CRM) -
	Data conchorsing is used to support CRM applians
	Data archousing is used to support CRM applications that help organisations manage their interaction
	with costomers.
	hand the second of the second
111	Supply thain management
	It is used by integrating data from suppliers,
	distributions and Logistics providers which
	It is used by integrating data from suppliers, distributions and logistics providers which helps to improve efficiency and identify bottle recke
iv	Health care -
	It is used in applications such as health
1 3	It is used in applications such as health management, clinical recearch, patient analytice etc.
1	The state of the s
B	What is a five number summany of data? Explain with example.
	Explain with example.
- Mrs	The five number summary is a statistical summary of a dataset. It consists of fire
<u> </u>	summary of a dataset. It consists of fire
	values: minimum value, first quartile (QU), median
177	values: minimum value, first quartile (Q1) median (Q2), third quartile (Q3), maximum value. It is often used in boxplots and other visualization
	to show
<u>.e</u> g	5,8,12,16,18,20, 22,25,30,35
, 1. F	:. mir = 5
11.	Max=35
	mrdian= 19
	91 = 12
	03=25
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	DATE:
6.	
4)	Explain various measures of untral tendency
	of data.
1/1/51	- Mean-
*	The mean is the most common measure of
	control tendency. It is calculated by adding up all the values in a dataset and then dividing
u * * * * *	by the total number of values the mean can be
	sensitive to extreme values or outliers in dataset.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Median-
The second	The median is the middle value of the dataset
Till	when the values are arranged in order. It is
	less appelled by outliers unlike mean.
1 + 1.	And the state of t
	Mode-
4	in the dataset It is use for for describing the
	in the dataset. It is use for for describing the
	most common value in the dataset.
	All the state of t
5	Normalize the following group of data: 200, 300, 400
The second	600 1000 Use min max normalization by setting
	new min=0 and max=1.
4	min=200 max-1000.
	Xnew = (x - min) Xnew = 400 - 200 = 0:25
	(max-min) 1000-200
	X new = 200-200 = 0
	1000-200
	Xnew = 300-200 = 0:125 Xnew - 1000-200 =1
1	1000-200
	0,0125,0.25,0.5,01
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(1	

6)	What is concept hierarchy? State examples of
	portial order and total order hierorchy.
Ens à	Concept hierarchy is a way of organizing data
	or intermetion in a hierarchial structure based
7	on their level of abstraction or generalization.
	A partial order hierarchy it a way hierarchy in
	which not all elements are comparable le some
	elements may be incomparable to ethers.
	For instance a eagle is more similar to a sparrous that it is to a shark
3)	A total order hierarchy on the other hand, is a
	hierarchy in which all elements are comparable
	to each other.
€)	A good example of total order hierarchy is all
	integer as be ordered from smallest to lorgest
	and every integer can be compared with every other
-	integer
	10 0 - 10 04
	What are different plap operations? Explain with
	examples.
Ant	OLAP operations are used to analyze data from
•	different perspectives.
1)	a din and Eas is word to endract intermation
	A clice operation is used to extract information
	from a water by surely strait data from a coulded
	from a whe by selecting single value from its dimensions. For example, to extract data from a specific year from a sale whe we can slice the obte by the year dimension and select the specific year we are interested in.
	by the war dimend and edect the special war
	me are introduction and second
	1111175 70 17

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iì	Dice-
	A dice operation is used to extract data from a
, , ,	whe by selecting more than one value from
	moltiple dimensions. For example, por data pom
	speupic year and speupic product, we select the
	year and product dimension we are interested
	in.
1	and were there is the many
111	Rolloup-de distribute distribute de
	A voll up operation is used to aggregate data
	from a lower dimension to a higher dimension.
3 . V.	For example, traggreate salu data for a product by
	year, we can roll up the product dimension by
7 3	venx dimension.
	year dimensions militaire ville militaire
10	Drill-down-
	a serie of the broad to broad days
15	regaregated data from a higher-level dimension to
Ţ	M Duppy and Carried Story
0	cales data from for all products by year, we
	can drill down the product dimension to the
= 1 = Vi	'year' dimension.
	9
8)	Explain in brief major & tasks of data preprocessing
Ans	Data preprocessing is a corcial step in
	data analysis and machine learning pipelines. It
	involves cleaning, transforming and proporting trew
	your data. to make it suitable for analysis.
;)	Data cleaning-
	This involves handling missing values, outliers and
	inconsistent data.
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DATE: This involves combining data from multiple sources into a single dataset. For example, merging two dataset that have a common key. Data TransformationThis involves converting data into a suitable
permet for analysis. This may involve scaling
or normalisation, encoding rategorical values. IV) Data Redoction -This involves reducing the size of the dataset while retaining as much information as possible. This may involve sampling, feature exterior or dimensionality reduction techniques.