15/5	5/22 DMDW - Assignment - 01	PAGE NO.
	b1. What is ETL9 Explain the stope in ETI	1.
	the value of the v	ile in the second
11:80.	The data from war.	
M.U.		7 1 1 -
1	finally looide it into Data warehouse u	utem
- 10	II	6 marks of
110	RDBMS 11110 1110	ite wa
1	1691	
4.00	Seever Staging	Data
<u> </u>	Flat area	house
2000	Transformation	Loading.
	Extraction as the service seem west and add I am	STATE
->	steps involved in ETL:	outous
	through the first step in the ETL pincen is	Extraction.
	man various source enter	had solved
-	in voucous poimats libe	Olatinual 11
	100 SO-, x mach and pat files into the stages	allega. 1+ i.
-)	to extract the data from various &	ouce outons
11/1	and store it into the staging area first and	I not directly
30	into the data warehouse because the e	xtraited data
36/3	is is various formats and can be con	upted also.
2.	Transformation: The second step of ETL pro	cess is
	Transformation. In this slip, a set of rules	or functions
	are applied on the extracted data to co	onnext it into
No s	a single standard format. It may In	volue bollniona
110 F	processes. 1 filtering - loading only certain	
	the data warehouse D cleaning - filling	
12		
	values with some defaute values etc. 3 joiner	na a binale
	multiple attributes into one 4 Splitting: splitte	KNSIT

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	according to those divisions.
<u>(a)</u>	Operational data store; for It is a data of the
	received automorase not OLTP queterne suprest
100	de ops, data walkouse is salso not
	that there is the desired in the second in
	the strong records of the Employees.
(3)	a subset of datapase house. It is established
	particular une of business here.
3	phance in an ondependent date mast daga
	an affectly from sources.
01:	The state of the s
64.	Explaint Processing of OLAP a veries
	processing of OCAP OLIVER
60,00	materializing ruberdy and construction of se
	to speed up aller prolley up to
handa	The same of the sa
->	vertermines which prevations of and I also
yı. 2	sometimes to an forming and to the
	and a per a
	the query into corresponding SOL and or DLAP operations Eq:- Sliving & picing of a data.
9.	cg: strung ée piring of a data.
2)	marchanga coporas the soloward
	operations should be applied: The involves identifying
	the materialized cuboids that may pokulially
	be used to ansule the query, estimating the costs
	using the remaining materialized cuboids and
	selecting the suboid with the least cost.
85.	What is mola data in data was all is a way
	what is meta data in data wavehousing ? what does if contain?
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-7	Metadata is simply defined as data about data. The	
0 410 mg	data that is used to represent other data is also	
->	metadata is the roadmap to the datawarehouse and	A
	it outs as a directory	
	Metadata is the datawarehouse defines the waiehouse	12
	Objects of the second of the second of the second of	
(-)	meta data consists of following:	
-1)	Business metadata: Ir contains the data ownership	
	Information, business dejn and changing policies.	
2>	operational metadata: It includes currency of data	
3)	Data for mapping from operational envisonment to	
182	delawarehouse: It includes the source databases as	rd
45	Algorithms for summarization etc;	
	Algorithms for summarization: It includes dimension	ON
4 1/10	elgouthme, data on granulacity, aggregation etc;	
86.8	captain the knowledge date	-
	neat diagram (KDD) with	
	Dala knowledge	
	mining	
	Data selection Pattern Pattern Evaluation Pattern	-
Jek		
Da	la ing Relevant Data	
de	Data warehouse	_
C	A Real Black Building	
	O 111 From the property of the state of the	
Dect	abases	_
	in diction)	

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1.	Data cleaning: is defined as removal of noisey and
	Irrelevant data from collection
A.	Dala Pritegration: Dala Pritegration is defined as
	heterogeneous data from multiple sources combined
	in all common souce!
3.	Data selection: It is a process where data relevant to
	the analysis who is decided and retrieved from the
	data collection
4.	Data Transformation: is defined as the process of
	transforming data into appropriate form required by
	nining piocedure
5.	Data mining: if is defined as clence techniques that are
	applied to extract patterns potentially useful.
6.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	inveasing patterns representing knowledge based.
7·	knowledge representation: is défined as a technique which
	utilizes visualization tools to represent data mining result
	O de deserci
97	: Explain the snowplake and star schemas with relevant
	diagrams Supplier Dineusion
>	* Snow Flake Schema: sales item= table
	time dimensions Fact table dimension table S-key
	time-key time-key litem-key s-type
	day-key ffern-key tem-braid
	month-key branch-key type-key
7	Les la land and for the or wall
A.).	Branch Location key bocation
Dime	mon table branch-rame citis Street-key Dimension table.
013	branch-type dimension City- key
ıdı	task City-key has my ologial
117	KNSIT
The state of the s	1 key
11	

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\rightarrow	Some dimension tables in the snowflake schema
	are normalized in the
_9	The normalization splits up the data in additional.
- B2M	tables must shall be also also also also
一	Unlike Star Schema, the dimensions table in a
218 1. 1	Snowfraka schema are normalized
-3.11 131	Fact constellation Schema
→ ¢	A face constellation has multiple fact tables.
	It is also known as galaxy schema
_9	It is also possible to share dimension tasks
	betrieen last tables.
	between fait tables. time-D table sales fait item-D Shipping table. Table
	time-key time-key supplier
Tal Mary	day tem-name Rupplier
- 10 0 0 0 0 0	day- of-week branch brand type.
	branch N
Adralica	branch location Shipper dimension table
	key City-key boation-
	name City Street
	branch-type Country City-Icey
. 08.	The state of the s
	Desuite the 10te of hierarchies.
4	herarchy delines a commit
80 = (0	
Cr	
	Toronto, Ny and chicago. Each city ancourse
	Toronto, Ny and chicago. Each city can be mapped
	The state of the s
. I.I	

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loca	to the province state to which it belongs. The provinces and etates can in turn be mapped to the country. These mappings form a concept of hierarchy for the dimension location, mapping a set of low-level concepts to higher-level, more general concepts. B. This concept is idenstrated as follows.
ww	ley [canada] [USA]
lwn	nee (British columbia) (Ontario) (NY) (Illinois)
city	Vancorer (Victoria) (Toront (Ottawa) (NY J. (Buffala) (Chicago) (Us barra
· ·	
\rightarrow	A concept hierarchy je total poutial order among attributes is a db schema is called
	Cehema hierarchy. Lattice structure A concept 1
- /	- Mana
	20 year O Province
0	Q uster Q
	Och
	O o week
	month of
715	
	Street
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