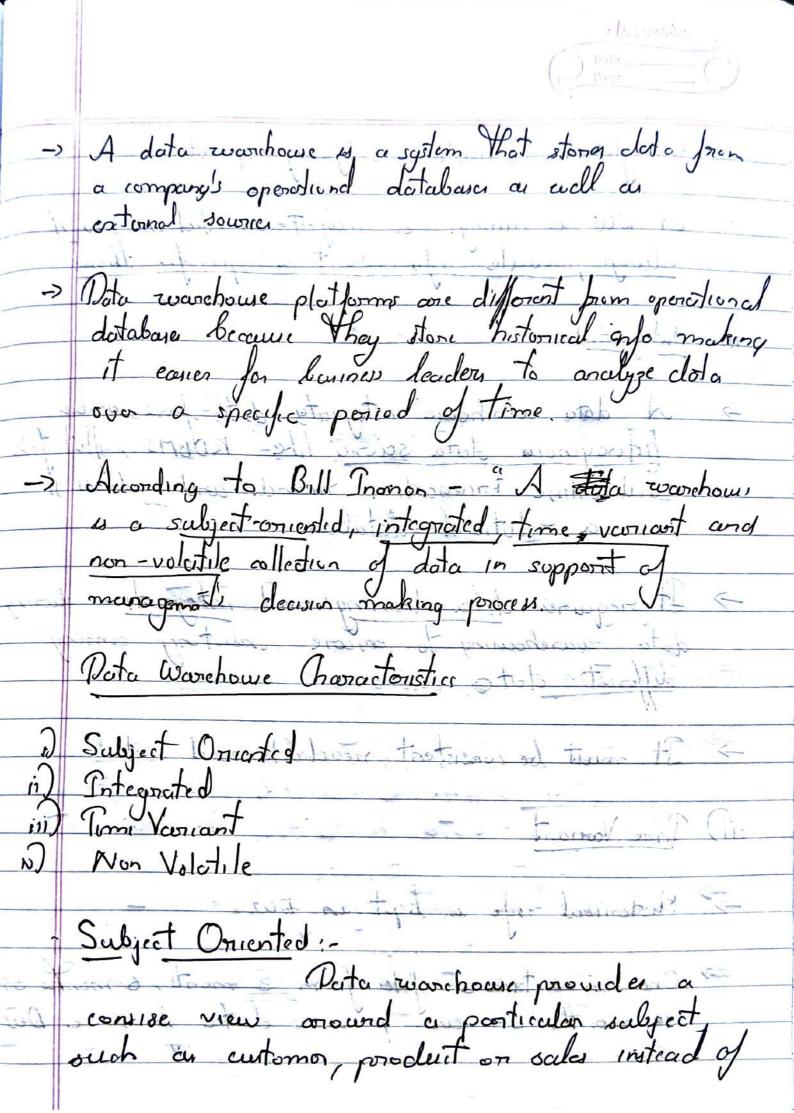
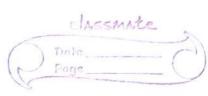
	Module 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	I have been a superior to the
	Database:
	S 1 T X - 1 - 1 X - x ) C X
<b>→</b>	Stones data in tables
. 7	Deals with sportional or transactional data
	Stories data in Tables  Deals with operational on Transactional data  (coverent data)
->	Can stone MBs to GBs of data
	2 ( 2 + 4 + 5 ) -
$\rightarrow$	Used for OLTP (Online Transaction Processing)
	Used for OLTP (Online Francetion Processing)
	Dota Warchous
	Signature - Tetrans :
->	Strace huge amounts of data
_>	Stone huge amounts of data Dala coveretal them muldiple hitrogorous source
	Tike July DBMS etc.
7	Stone historical data as bas (
->	
	Can stone TBS of data
a	The fact the many from the
Eg	1-low the placement of is students have
	in proved oua the last to years, in term
	of scalcaries, counts, etc.
	V
	Used for OLH inline Analytical Processing



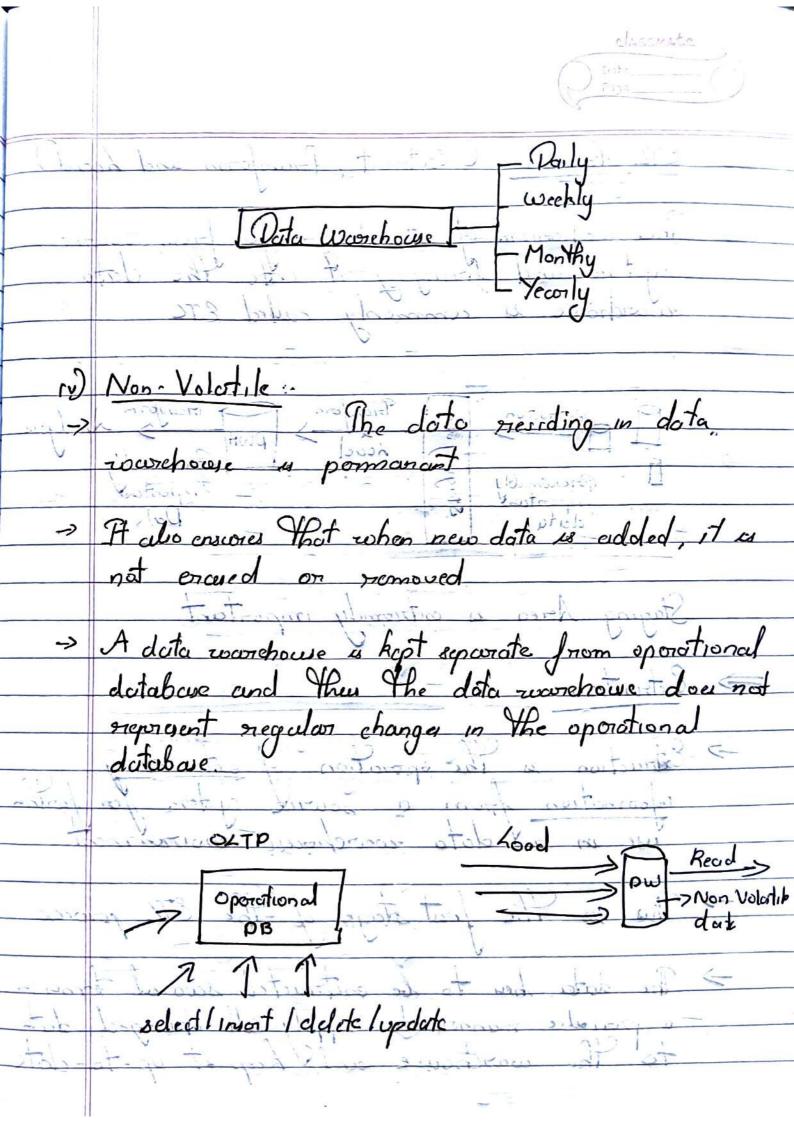


The global organization's outgoing operations -> A DW is always a subject-ornation one, as It always provide info about a specific theme A data recorde integrate data from revious

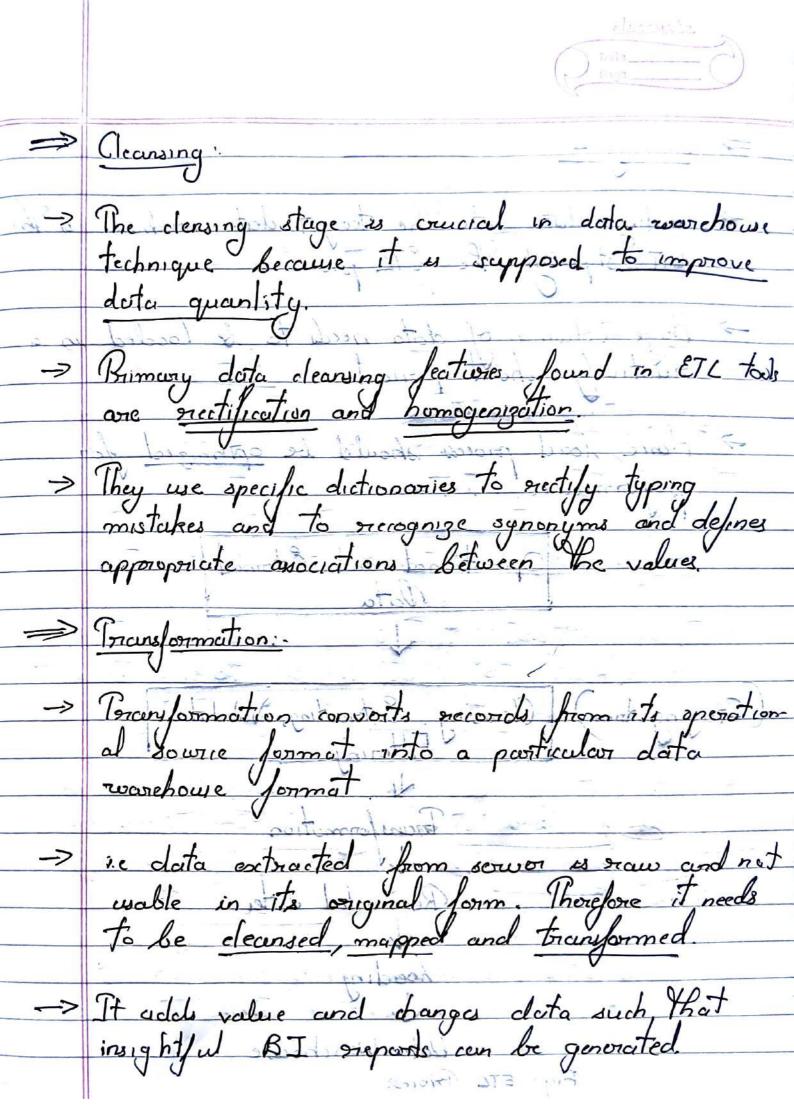
heterogenous data source like ROBMS fluit file
and online transaction tracorde and combines it The require data eleaning and integration during data was choosing to ensure consistency among different data vowster ii) Time Variant -> Historical into a kept in Dw. One can retrieve file from 3 monts, 6 monts on 12 months on even previous data from a DW.

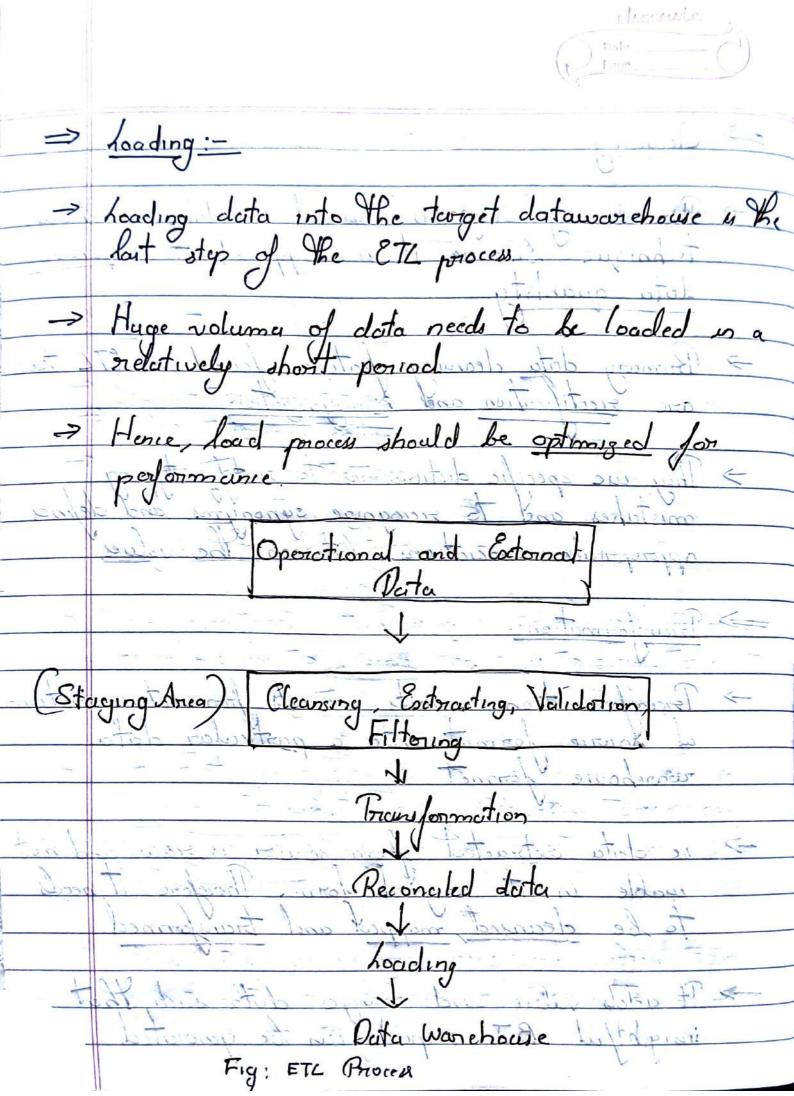
weekly Monthy -> A data warehouse a kept separate from operational + negular change in the oporationa selections I delete lupdate

Paly weekly Monthy Non-Volotile: Tourchouse us pomounant It also ensures that when new data is added, it as not encued on nemoved A dota warehouse a kept separate from sporational detabase and the He dota recordence does not destabase database. Operational selectliment / delete lupdate



	Classmate  Date Page
	ETL Brocess C Extract, Pransform and Local
	The mechanism of estracting into from source system and bringing it into the data
	workhouse is commonly called ETC.
	1 to 1 V V V C
	Soctoroction Franciscom Procupora Analysis
	Brewmully
	Presumably 5 Impostust Daris
is to	derta the best red some that to we out to
	- 100 - 100 - 100 to
1	Staging Area is estremely important
1000	Timpo mont strange tops a sundernar stob to
	Extraction to the the box addition
	QL 19 at W what rails are transfer
	Colrection is the operation of extracting
	information from a source system for further
Locar	Extraction is the operation of extracting information from a source system for further use in a data receptouse environment.
	This is the first stage of the ETL prioress
	V
->	The data has to be asstricted sevoral Imeria
-	a poundie mannor to supply all charged data
	The data has to be estimated several times in a poundie mannor to supply cell charged data to the warehouse and keep it up-to-date

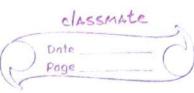




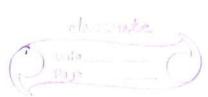
Components on Building Blocks of Data Warehouse 1 Data Source Component 5 Internal Porta 11 Refer and Esquared
Lo Esternal Data. 2 Nota Staging Componento-stationed rest of a Ifter we extract data we have to prepare the Duta Extraction / Refer and Expand.

- Lo Data Bransformation

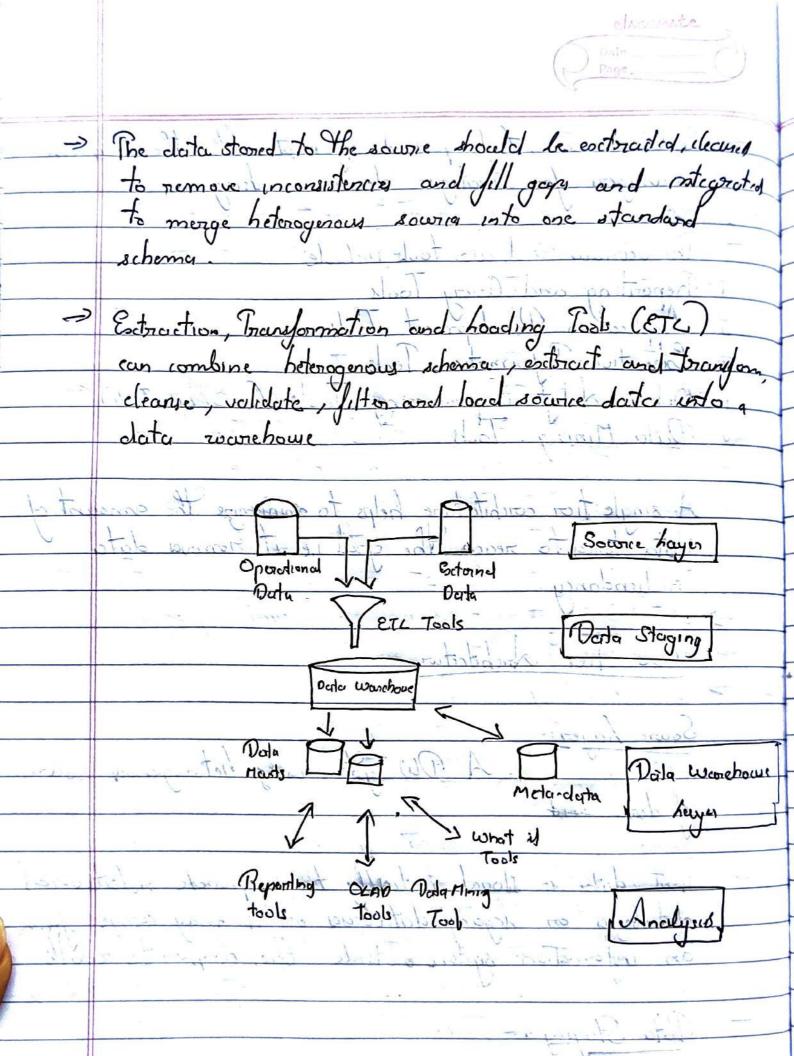
- Data housing 3 Porter Storage Componenting I to the Data storage component of the data warehouse stone the data. It's achantage includes the ability to stone large amounts of data is a single location fait and efficient data metherical, and improved data quality due to data deansing and standardization



Ssay	Data Warchouse Anchiteture:
<b>→</b>	Data warehouse wichdesture defines the worangement
	Data warehouse architecture defines the averagement of the data in different databases.
	- Heren Heiter I was and Inguesed
= 1	Defferent Anchitetorie
	> Foctoria di Exerta
<b>→</b>	Single-tier corchiteture
<b>→</b>	Two tier architecturemans prosts in
->	Single-tier conchitecture Three tier conchitecture
20	a stranger or found our bust to project To
	Single Tion Anchitecture - protection
->	An operational system is a method used in data recovered used to process the day to day to day to day
	rewebouring to process the day to day to day to day
	of an organization.
<u> </u>	A Flat file system is a system of files in
	A Flat file system is a system of files in which transactional data is storied and
- > 4	word file in the system must have defent
	Tramerior epitorialis of the stal of worts
	ability to stone tongs arrant of data.
DV BET	Meta Data summarges necessary information
ET:	about data which can be used to ames
_	data more easily.



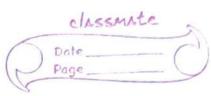
<b>→</b>	End User access tools provide information to the business
-	End User access tools provide information to the business managers for strategie decision making.
	Le surge de des prisons le une disserve et
$\rightarrow$	The various and was took include
	Reporting and Owery Tools
ñ	Sopheetion Development Tools
711	Executive Information Tools
ĮV	Executive Information Tools Online Anlegtical paracessing Tools ( Other Tools)
- v	Parta Mining Tools
<i>→</i>	A single tron conditioning helps to minimize the amount of
1	A single tion withtertwise helps to minimize the amount of duta stored to reach the goal is it removes data
1	redundancy.
	יושנות - טמינה
	Two Tier Anchidettur
-	ישוני שישימאלי
	Source Layer:
	A DW system uses hetorgenous source
	I I I med som
	of data and
	That date is the distribution of lateral
	did live a stories insteady to componer nelcotories
1	the total and the state of the may come from
	That duta is stored indicelly to componer relational distubuses on it may come from an information system outside the componente wells
	Vota Staging :-



Single Tien Diagram: Meta Duto ETFlatfila interior - motion for sympte The Two Tien (Contd...) Data Warchowe Layer:

Information is saved to

centralized individual repository i.e. the data warchouse. The data warehouse can be directly accessed but it can be also used as a source for creating data marts, which partially replicate data everebouse contents and are designed for specific enterprise



	departments.
<b>⊸</b> ?	Meta-data repositornes storie information on source, access
	Meta-data repositories storie information on source, access procedures, data staging, was, data most ichemo, and
	Analysis:
->-	and possible account to escie reposits, dynamically
1	Analysis:  In the layer, integrated data is efficiently and flexible account to essaie reposits, dynamically under and simulate hypothetical burness scenarios
-4	
->	It should feature aggregate information new godon, company optimizers and automa - Incody GroI's
	query optimizer and automa - friendly GiOI's
	btacl and the constitution of the land
	Local stall
	of lave a contange for
, ( - A / . · )	costrolyed and alued supporting is the eletion
1	- The data warninger and be diquetly one of to
	Etwas so or brow so of me
	the state of the s