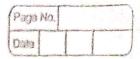
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	NAME:- AFHAN ATTAR PRN: FIGUROUS CLASS:- BE COMP.TT SUBJECT:- LPVI [BI] ASSIGNMENT:- 01
	what do you understand by BI?
0	RT stands for business intelligence.
nrv 1.	It is a technology driven method that helps wood
2	analuse and visualize business data from mousumes
	of data sources and share insights across their
	organizations.
g.	It also provides other information that may help
	corporate executives, business managers and other users
	make business decision.
4.	Common functions of BI include but are not limited
	to data mining, process mining, reporting, online
and the second s	analytical processing, prescriptive analysis.
Ans 1.	Power BI is a Business Analytics solution or a
	Business Intelligence and Data Visualization tool.
2.	It is developed by Microsoft in the year 2014.
3.	It enables users to convert data from thousands
	of data sources into interactive dashboards and
	BI reports.
4.	It is a cloud-based self service BI tool that collects
	application, multiple software connectors and services used
ages of the Control o	to organize raw data into important content.
93)	
An	Microsoft's Power BI is mostly used by the
	A de alea continutions

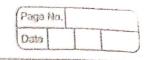
following applications.



1) Business & Pata Analyst 4) Pata Scientists 2) Project Management Office (PMO) s) IT Team / Professionals 3) Developer & Database Admin. 6) Consumers for final report. gu) In how many formats Power BI is available in the market? Am It is available in 3 formats: 1) Power BI desktop: For desktop computers. 2) Power BI service: - Online Saas. 37 Mobile Power BI apps: For Android/ios devices gs) what do you mean by ther term Power BI Desktop? BM: Power BI Desktop is a free business intelligence app. 2. It is used to install on the computer system to work with Power B.T. services. 3. It offers shaping, modelling, data exploration, and report creation using high interactive visualization. 4. It allows us to save all our work to a file to publish reports and data to the Power BI site so that we can share it to other too.

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	Uste
	NAME: - AFNAN ATTAR PRN: F19112,003 CLASS: - BE COMPIT
	SUBJECT: LPVI [BI] ASSIGNMENT No.: 02
QI)	Explain how ETL works?
Ans	Let us see what happens in each step of the
	process:
巧	Extraction:-
1.	During data extraction, raw data is copied or exported
	from source location to a staging area.
2.	Pata management teams can extract data from
	various data sources that can be structured or
	unstructed.
8-	Sources include but are not limited to:
	SQL or NosqL servers.
-	CRM and ERP systems
	Flat Files, Emails, Web Pages.
IJ	
1:	In this process data is transformed and consolidated
-	for its intended analytical use case.
2.	
	Filtering, cleaning, de-duplicating, validating and
The state of the s	authenticating data.
	Performing calculations, translations or summarization
	based on raw data.
	Conducting audits to ensure data quality & compilance.
	Removing , encrypting, or protecting data governed by
copy from making represent the hope principle property and the second second	industrial or governmental regulators.
	Formatting the data into tables or joined tables to
	match the schema of the target warehouse.
	Load:-



- In this step the transformed data is moved from staging area into a target data warehouse.
- 2. It involves intial loading of all data followed by periodic loading of incremental data changes, and, less often, full refreshess to erase and replace data in the warehouse.
- Ans i. ETL solutions improve quality by performing data deansing prior to loading the data to a different repository.
 - 2. A time-consuming batch operation, ETL is recommended for creating smaller target repository more often than not that require less frequent updating while other methods such as:
 - i) Extract, load, Transform [ETL]
 - ii) Change Data Capture CCDC]
 - of data that changes or real-time data streams.