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## TASK 6 - STASTISTICAL TOOL

Report :-

Power BI

En power BI BI Stands for business Entelligence, which is technology - driven method which helps you to analyse data and provide actionally information which helps corporate bussiness to handle their bussiness more efficiently.

As the BI meaning goes PowerBI is a Bussiness gntelligence and Data Visualization tool for Converting data from various data sources into - interactive dashboards and amalysis reports.

Moreovere Différent PowerBJ Version like desktop , Service - based (saas), and mobile PowerBJ apps used for chiffment platforms : It provides multiple software Connectors and services for Buseiness. Intelligence Some attractive features of Power 151 tools

- · It has pre-built dashboards and reports for Sous solution
- · Power Bs allows real-time dashbaard upadates.
- . Offers seeme and reliable connection to your data sources in the cloud or onpremises
- · Power BI Ofers Quick deployment hybrid Configuration, and secure environment.
- · allows data exploration using matural language query.
- offers feature for dashboard visualisation regularly updated with the community.

There Various Types of PowerBI toot tools which can be used by user as per his/her work type.

Power BI is developed by Microsoft and some of the tools are free to use while others are paid for the the extended features.

Power BI too' Desktop!

It can be used for primary authorize and publishing tool for PowerBJ. Developer and power users use it to exeate brand new models and reports from scratch

Power Bs desktop is free to use but requires subscription for using advance tools.

2) Power BI service:
Online software as a service (saus)
Where Power BI models o reports,
olash boards are hosted. Administrations

Shaning 5 Colloboration happens in

the Cloud.

3) Power BI Data Gateway:

Power BI data gateway worke as
the bridge & between the power BI
Service and on-premise data cource
like pirect Query Import, Live Query.
It is Installed by BI Admin.

4) POWERBI REPORT SERVER:

St can host paginated reports, KPI's mobile reports of Power BI desktop reports. It is updated every 4 months and installed managed by IT team. The west can madify power BI report other reports created by the development team.

The ba

The feature which makes the powers!

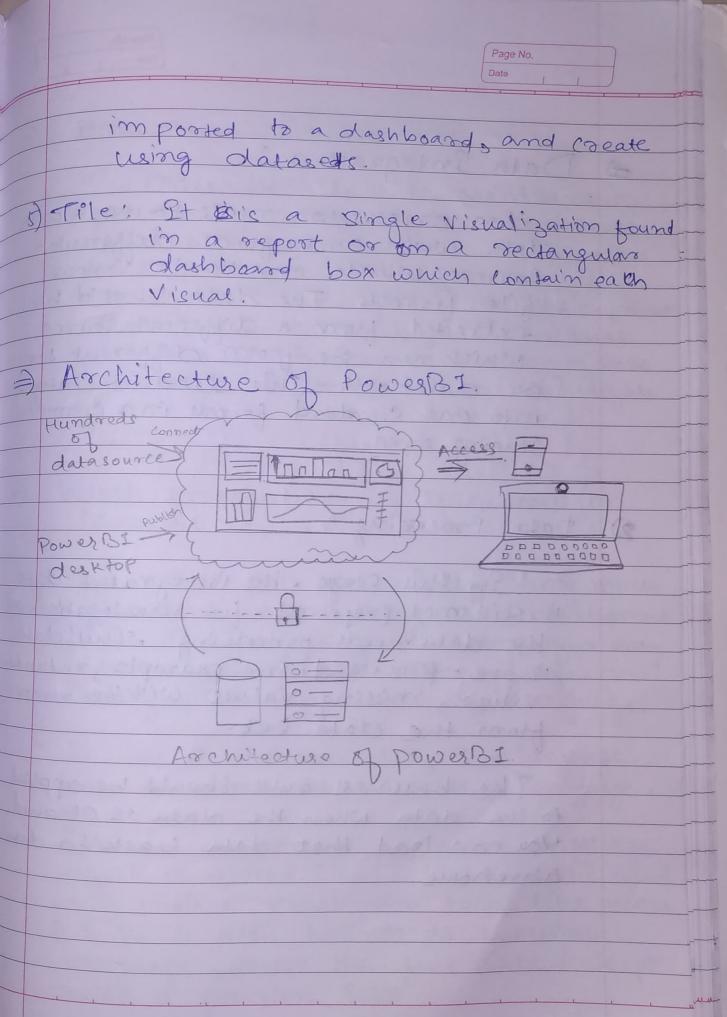
Standout of all other BI took is it
allows integration of data sources of
Varnous types

The various data source formats allowed are:

- > Excel Files (:xixx xixm)
- -> Comma Seperated Value (. CSV)
  - -> PowerB1 destop (.pbi)
  - -> Databases (SQL, MySQL, etc)
  - -> Databases in the cloud
  - Direct from Web (websites, articles)
    - -> BI took files brom other company.

The for feature of collecting data from web and realtimed upolating a data are features are which a developed is alway searching for.

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=)	Key terms in Power BL.
2200	Visualisation
+1	Datos ets
100	o Reports
	Dash boards
	Tiles
	The state of the s
2.	
1)	Visualisation of A Visual display of information
	Visualisation :- A Visual display of information to achieve one of more objective. Bit Offers a single-screen display of informat 34 alegs usors on issues or problems.
	3+ alers lisers on issues or problems
	operational s l'enforamance s l'ensomal, etc.
- >	Dalacete a a la
2	Datasets & A dataset is something which
	you import o's connect to Patersets can be renamed retreshed
15.	can be renamed refreshed removes and exposed explored.
-\	manufacture of the state of the
3)_	Dashboard: The dashboard is a collection
	tiles and widgets. It is used
	to represent à customized View
	of some subset of the understying
DA.	datasett.
4)	Reports: A power BI report is one
	or multiple pages of Visualisations
	It can be created from sevately



1) Data Integration:

An organisation reeds to work with data which come from different.

Sources which can be in various file formats. The data should be extracted from a different source. Which can be from different source or databases. This data is integrated into one Standard format in a Common Staging area.

2) Data Processing %

In this Stage, the integrated data is still not prepared for visualization as the data needs processing. This data is pre-processed. For example, redundant values, missing Values will be removed from the data set.

The bussiness rule should be applied to the data when the data is cleaned. You can load that data back to data warehouse.

## Data Presentation:

Once the data is loaded and processed It can be. Visualised much
better with use of various Visualisation
that powerBI has to offer. use of
dashboard and report helps one represent
data more intuitively. This visual
seport helps business and usess to take
business decision based on the insights.

## =) Which programming i's required in

Power BI die not really Very much dependent on Coding and development Co it is Very easy to learn for any person who has no knowledge in Coding and programming language.

Et has a involvement of DAX language. but it is not any handcore language.

DAX re a formula expression language which is called CDAX) which can be used with various Visualication tools. like power BJ. 3+ is also known as functional language where the full code is kept inside a function. DAX.

DAX contains formulas for siple -Mathematical expressions such as overage, Max, Min, Concatenate, Totalyo. etc.

- =) The topology BI tool can be extremely helpful i'm professions dike:
  - 2) Bussiness & Data analyst
  - 3) Developer & Database administator.
  - 4) IT Team , I'T professionals.
  - 5) Consumer for End user report. 6) Data Scientist

And I feel it should also be taught in high schools as it is very ton important tool whether you select any of the Streams for further. Studies.

