* Data Warehouse :

Data Warehousing is the process
of constructing a data in
Warehouse.

Data Warehousing can analyze
data about a particular subject

Onee data is in a data warehouse,
It is doesn't change means
Nonvolatile.

A well-designed data ware house will
Perform queries very quickly.

Data warehousing Provide enough
Flexibility for end users.

Data warehousing maintances
data quality and consistency.

Data warehousing is also known
as Management Information
System.

Data Warehousing often relational
database to store and manage
data.

Data Warehousing create consistency among different data types from database.

Data Warehouse reduce the volume of data for closer examination.

-> Features:

1 Subject Oriented

2 Integrated

3 Time - Variant

4 Non - Volatile

-> Advantages:

1 Speedy Data Retrieving

2 Easy Integration

3 Increase Data Quality

4 Maintances Data Consistency.

5 Provide Enough Flexibility.

→ Disadvantages :

1 Hidden Problem in soures system.

2 In Data warehousing, some time
   we loss the some valuable parts
   of the data.

3 Complicated Process of changes
   implementation

* Data Mining :

Data Mining is the process of
sorting data in the large data.

Data Mining is the process of
Finding the patterns in the
data warehouse.

Data Mining is help to Find
the valuable information
from huge sets of Data.

Data Mining is also called
Knowledge Discovery in Database.

Data Mining is the process of extracting information to trends.

Data mining act as a automatically searching for large store of data.

Data Mining Utillizes complex mathematical Problem.

-> Features:

1 Automatic Discovery

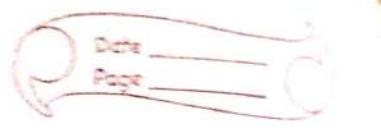2 Focus on large data sets.

3 Focus on large database.

-> Advantages:

1 It helps to get reliable information.

2 Helps to make informed decisions.

3 Helps to detect risks and fraud.

4 Helps to analyse very large quantities of Data.

→ Disadvantages:

1 Data Mining tools are complex.

2 Data Mining tools require training for use.

3 Data Mining requires large Database

4 Data Mining can be a very expensive process.

* Difference between Data warehousing and Data Mining.

	Data Warehousing	Data Mining
1	In Data Warehousing data is stored in row form.	Data Mining is the Process of identify the Data.
2	This is use for store the large amount of data.	This is use for searching the data in the large amount of data.
3	Data Warehousing update Periodically.	Data Mining update regularly.
4	Stores a huge amount of data.	Analyzes a sample of data.
5	Provides a space for store a huge amount of data.	Discovers patterns in database.
6	Data warehousing is a method of organizing data.	Data mining is a method of data feching.

* **Web-based database :**

A web database is a system for storing information that can be accessed via internet.

A web database is a database application designed to be managed and accesed via internet.

Website operator can ᴀᴇ manage this collection of data.

The web database does not required advanced computer skills.

Web-based database can be accesed any place or any time.

Without internet system, we can not acceses web database.

Web-based database required more time for searching.

Web-based database Users can accese any where.

Web-based database can destroy Easily.

Web-based database not provides more security for the data.

In web-based database, user can change data at any place.

-> Advantages :

1 Web-based database can use any place or any time.

2 Reduse cost for maintaining Database.

3 Web-based database does not required advanced computer skills.

-> Limitation :

1 Without Internet, Web-based database can not work.

2 Required more time for searching.

3 Web-based database does not provides more security.

* Distributed Database :

Distributed Database is a basically database that is connected over a network of computer.

In Distributed Database, Data can be stored in small Group.

In Distributed Database, Internet accessibility does not require.

In Distributed Database, multiple computer can be connect in a single network.

Distributed Database offer location transparency of Data.

Distributed Database needed complex and expensive software.

Distributed Database user can not accesed any place.

Distributed Database required less time for searching.

Distributed Database provides more security compare to the web-based database.

In Distributed Database, Data loss is very less compare to the web-based database.

-> Advantages:

1 The database can be stored according to user requirment.

2 It is cheaper to create a network.

3 Required less time for searching.

4 More Secure.

5 Data loss is very less.

-> Limitation:

1 Distributed Databased needed complex software.

2 Distributed database, needed expensive Software.

3 It is difficult to maintaine the Data Integrity.

* Difference between Web-based Database and Distributed database.

	Web-based database	Distributed database
1	Web-based database accesed via internet	Distributed database is a connected network over of computer.
2	Web-based database can User access at any place.	Distributed database can User access at specific place.
3	Does not required advanced computer skill.	It required advanced computer skill.
4	Web-based database not needed costly software.	Distributed database needed costly software.

	Web-based database	Distributed Database
5	Data loss is very high.	Data loss is very less.
6	Data can destroy easily.	Data can not destroy easily.
7	Required more searching time	Required less searching time.

Brain Spot