## **Data Warehouse:**

It is a repository or place in which we can store the historical data, by which generate the reports and analyse the business key metric fields in order to improve the business.

## The Characteristics of data warehouse are

It is subject oriented: in which we can focus on the particular area of analysis.

Integrity: by which combine multiple data from multiple sources.

It is time variant: means we can store historical data.

It is non-volatile, means we cannot modify any data within it.

If suppose want to change then added as new record.

Normal Database (OLTP)	Data Warehouse (OLAP)		
OLTP (Online Transaction Processing)	OLAP (Online Analysis Process)		
It records the user current transaction data	It maintain the historical data		
Tables and Joins are complex since they are	Tables and Joins are simple since they are de-		
normalized. (Avoid duplicates)	normalized.		
Optimised for keeping small amount of data	Optimised for keeping large amount of data		
MB to GB	GB to TB		
Small to Large	Large to Very Large		
Entity relationship Modelling technique is used	Dimension modelling technique is used		
Analyse the query time is less sub second to	Analyse the query time is more seconds to		
second	minutes		
Optimized (used) for write operations like	Primarily Read only operation		
insert, update, Delete			
Application oriented	Subject oriented		
Only single stream	Integrity		
• Volatile	Non-volatile		
Handling single record at a time	Handling multiple records at a time		