**Q. What is Data processing chain?**

The chain of data processing is defined a sequential steps, which lead to convert raw information to essential insights or hidden value. This hidden knowledge is used to improve business. Data processing chain is depicted as follow:

Data 🡺Database 🡺 Data warehouse 🡺 Data Mining 🡺 Data visualization

There are several sources of **data**, from where information may come. It might be generated from organizational system, customers and owner discussion, or from any business. In data analytics, this data is classified into various type like nominal, order, interval and ratio. While data is generated then we need to store it as a structured format. For storing each and every organizational or business transaction in a good format, **Database** is required which provide facilities to perform some operations on saved data. **Data warehouse** is the simple version of operational database which provide assistance to make decision. After performing some query on data of operational database, it may require combining with other data, and need to be stored in another database which is called data warehouse. **Data mining** is way of recognizing and discovering hidden pattern throughout whole data set of data warehouse. Decision tree, regression, artificial neural networks and cluster analysis are some popular data mining techniques which are frequently is being used for data analysis. Final step of data processing chain is **data representation** after discovering pattern by applying data mining technique. Normally, data visualization come in the form of charts, diagram, graph and map which allow users to trace and analyze trends and patterns.