Before an organization starts to build a data warehouse, it must identify its analytics requirements. Once a data warehouse is built, it would difficult to use it to generate analytics that it was not designed for. Understanding and collecting analytics requirements is an important fir in the design process of a data warehouse.

In this assignment, you will be designing a data warehouse for a solid waste management company.

Here are a few things to keep in mind before you proceed to build a data warehouse.

Organazation level analytics requirements Identify what are the analytics requirements that are needed at the over all organazation leve

## **Department level analytics requirements**

Identify what are the analytics requirements that are needed at the level or various departments in the organization.

## **Performance analytics requirements**

Performance analytics help an organization to track how its operations are being carried out. For example these include reports like:

- How many products sold in the last quarter.
- How many tons of raw material used per product.
- Total sales per product in the last month.

## **Granularity of reports**

Granularity has a major impact on the dataware house design. When you identify the grain, you specify exactly what a fact table record cor The grain conveys the level of detail that is associated with the fact table measurements. When you identify the grain, you also decide on t of detail you want to make available in the dimensional model. If more detail is included, the level of granularity is lower. If less detail is included for granularity is higher.

The level of detail that is available in a star schema is known as the grain. Each fact and dimension table has its own grain or granularity. Eatable (either fact or dimension) contains some level of detail that is associated with it. The grain of the dimensional model is the finest leve detail that is implied when the fact and dimension tables are joined.

For example, the granularity of a dimensional model that consists of the dimensions Date, Store, and Product is product sold in store by date

Identify, if the organization needs reports year wise, quarter wise, month wise, week wise, day wise or hour wise.

Identify if the organization needs reports at country level, region level, state level, district level or individual store level.