

# Data Warehouse Characteristics

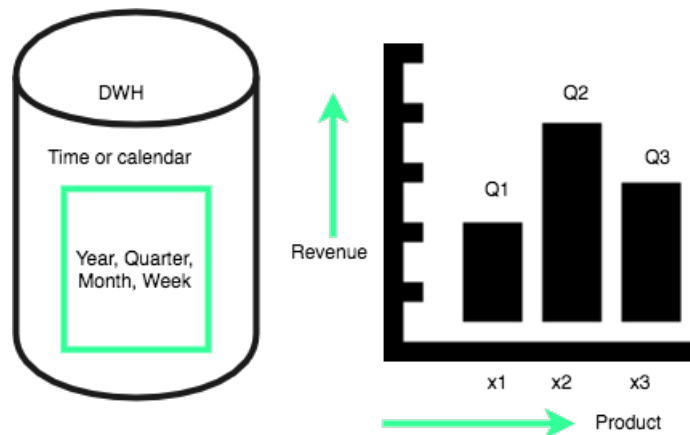
## Data Warehouse Characteristics

Data Warehouse is designed with four characteristics. They are

1. Time variant.
2. Non Volatile.
3. Integrated.
4. Subject Oriented.

## Time Variant

A Data Warehouse is a time variant data base, which supports the business management in analysing the business and comparing the business with different time periods like Year, Quarter, Month, Week and Date.



## Attributes of Time

- DAY\_NAME
- DAY\_NUMBER\_IN\_WEEK
- DAY\_NUMBER\_IN\_MONTH
- DAY\_NUMBER\_IN\_YEAR
- WEEK\_NUMBER\_IN\_MONTH
- WEEK\_NUMBER\_IN\_YEAR
- MONTH\_NUMBER
- MONTH\_YEAR
- QUARTER\_YEAR
- QUARTER\_NUMBER
- YEAR
- SESSION

- WEEKEND\_INDICATOR\_FLAG
- WEEKDAY\_INDICATOR\_FLAG

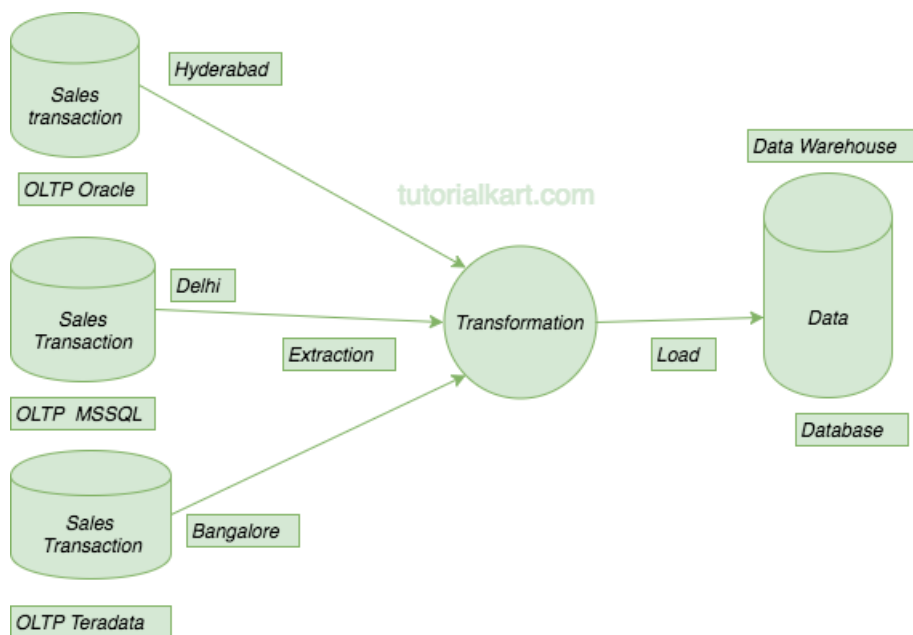
## Non Volatile

It is non volatile Database, once the data entered into the database, it does not reflect to the change which takes place at operational database. Hence the data is static in Data Warehouse.

- It generates artificial keys or surrogate keys to store the history.
- A surrogate key generated series of numbers.
- It requires more disk space.

## Integrated Database

A DWH is an integrated database, which allows you to collect the data and integrate the data with multiple database sources.



## Subject Oriented

Data warehouse is a subject oriented database, which supports the business need of individual department specific user.

**Example :** Sales, HR, Accounts, Marketing etc.

- ◆ [Data Warehouse Tutorial](#)
- ◆ [What is Data Warehousing](#)
- ◆ [Data Warehouse - Characteristics](#)
- ◆ [Data Warehouse - Architecture](#)
- ◆ [Data Warehouse - Data mart](#)
- ◆ [Data Warehouse - Star Schema](#)
- ◆ [Data Warehouse - Snow Flake Schema](#)
- ◆ [Data Warehouse - Confirmed Dimension](#)
- ◆ [Data Warehouse - Junk Dimension](#)
- ◆ [Data Warehouse - Slowly Changing Dimension](#)
- ◆ [Data Warehouse - Degenerate Dimension](#)
- ◆ [Data Warehouse - Role-playing Dimension](#)
- ◆ [Data Warehouse - ETL Concepts](#)