Ans: @ Data Integration:

Date integration is the process of combing and unifying data from different sources into a single cohesive view. In anany organizations, clata is scattered across various various various, files and systems, and integration this data is essential for obtaining a comprehensive understanding of the information. The main goals of data integration include:

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- 1. breating a unified view
- 2. Reducing Reduncancy
- 3. Improving Data Evality
- 4. Enhancing Decision- making
- 5. Facilitating Business intelligence
- 6. Enabling Gross Functional Analysis
- 7. Supporting Data warehousing

6 Date Transformation Methods:

Data transformation involves converting data into a format suitable for enalysis, hiswing that it neets the requirements of specific algorithms or business objectives. Various methods are employed to transform from data into a mose useful and standardized form:

- 1. Nohmalisation
- 2. Standardization (Z-Subre normalisation)
- 3. Attribute Transformation
- 4. Binning on Disoretization
- 5. Encoding lategorical Variable
 - 6. Aggregation
- 7. Somoothing
- 8. Data Maning
- Data transformation is an essential step in the data preparating pipeline, usuring that the data is in a suitable form for analysis and modelling.