**Task 3**

Q1: Can Database be used as Data warehouse?

Ans: It is not a good idea to use database as a Data warehouse because both have their special characteristics and usage. Database is designed for transaction processing which involves high volume of read and write operations while data warehouse is designed for storage as well as for analytical processing which involves large volume of data processing and querying for analysis or business intelligence purpose.

Q2: Major difference between structured and un-structured data?

Ans: Data, which is clear, consistent, and organized in a manner is known as structured data. It typically stored in databases and other structured file formats. On the other hand, data which is in its native form and is not in its structured form is known as un-structured data.

Q3: What are the duties of a data engineer?

Ans:

1. Create and maintain data architecture.
2. Improve data quality and efficiency.
3. Prepare data for prescriptive and predictive modelling.
4. Evaluate business needs and objectives.
5. Identify opportunities for data acquisition.