1. Data Marts and Data Warehouses have typically been relational, but the emergence of what technology has helped to let these be used for non-relational data?

1 / 1 point

- ○ ETL

- ○ SQL

- ● NoSQL

- ○ Data Lake

> ✓ **Correct**
> The emergence of NoSQL technology has made it possible for data marts and data warehouses to be used for both relational and non-relational data.

2. What is one of the most significant advantages of an RDBMS?

1 / 1 point

- ○ Can store only structured data

- ○ Requires source and destination tables to be identical for migrating data

- ● Is ACID-Compliant

- ○ Enforces a limit on the length of data fields

> ✓ **Correct**
> ACID-Compliance is one of the significant advantages of an RDBMS.

3. Which one of the NoSQL database types uses a graphical model to represent and store data, and is particularly useful for visualizing, analyzing, and finding connections between different pieces of data?

1 / 1 point

- ○ Key value store

- ○ Document-based

- ● Graph-based

- ○ Column-based

> ✓ **Correct**
> Graph-based NoSQL databases use a graphical model to represent and store data and are used for visualizing, analyzing, and finding connections between different pieces of data.

4. Which of the data repositories serves as a pool of raw data and stores large amounts of structured, semi-structured, and unstructured data in their native formats?

1 / 1 point

○ Data Warehouses

○ Data Marts

◉ Data Lakes

○ Relational Databases

✓ **Correct**
A Data Lake can store large amounts of structured, semi-structured, and unstructured data in their native format, classified and tagged with metadata.

5. What does the attribute "Veracity" imply in the context of Big Data?

1 / 1 point

○ Diversity of the type and sources of data

◉ Accuracy and conformity of data to facts

○ The speed at which data accumulates

○ Scale of data

✓ **Correct**
Veracity, in the context of Big Data, refers to the accuracy and conformity of data to facts.

6. Apache Spark is a general-purpose data processing engine designed to extract and process Big Data for a wide range of applications. What is one of its key use cases?

1 / 1 point

○ Fast recovery from hardware failures

○ Consolidate data across the organization

◉ Perform complex analytics in real-time

○ Scalable and reliable Big Data storage

✓ **Correct**
Spark is a general-purpose data processing engine used for performing complex data analytics in real-time.