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TO PASS 70% or higher

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Graded Quiz

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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

- ☒ NoSQL
- ☐ SQL
- ☐ ETL
- ☐ 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

- ☐ Enforces a limit on the length of data fields
- ☐ Can store only structured data
- ☐ Requires source and destination tables to be identical for migrating data
- ☒ Is ACID-Compliant

✓ **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

- ☒ Graph-based
- ☐ Document-based
- ☐ Column-based
- ☐ Key value store

✓ **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

- ☐ Relational Databases
- ☐ Data Marts
- ☐ Data Warehouses
- ☒ Data Lakes

✓ **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
 - ☐ Scale of data
 - ☒ Accuracy and conformity of data to facts
 - ☐ The speed at which data accumulates

✓ **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

- ☐ Consolidate data across the organization
- ☐ Scalable and reliable Big Data storage
- ☒ Perform complex analytics in real-time
- ☐ Fast recovery from hardware failures

✓ **Correct**

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