

Quiz 1 - Modern Data Ecosystem and role of Data Engineering

1. A modern data ecosystem includes a network of continually evolving entities. It includes:

1 / 1 point

- ☐ Data sources, databases, and programming languages
- ☐ Social media sources, data repositories, and APIs
- ☒ Data sources, enterprise data repository, business stakeholders, and tools, applications, and infrastructure to manage data
- ☐ Data providers, databases, and programming languages

✓ **Correct**
These are the key entities of a modern data ecosystem.

2. Data Engineers work within the data ecosystem to:

1 / 1 point

- ☒ Develop and maintain data architectures
- ☐ Provide business intelligence solutions by monitoring data on different business functions
- ☐ Analyze data for actionable insights
- ☐ Analyze data for deriving insights

✓ **Correct**

3. The goal of data engineering is to make quality data available for fact-finding and decision-making. Which one of these statements captures the process of data engineering?

1 / 1 point

- ☐ Processing data and making it available to users securely
- ☐ Collecting, processing, and making data available to users securely
- ☒ Collecting, processing, storing, and making data available to users securely
- ☐ Collecting, processing, and storing data

✓ **Correct**
Data engineering includes the collection of data from disparate sources, processing data so that it is usable, storing processed data, and making it available to users securely.

4. Data extracted from disparate sources can be stored in:

1 / 1 point

- ☐ Data Lakes only
- ☐ Databases only
- ☐ Data Warehouses only
- ☒ Databases, data warehouses, data lakes, or any other type of data repository

✓ **Correct**
Data extracted from multiple sources can be stored in any type of data repository, such as, databases, data warehouses, and data lakes.

5. From the provided list, select the three emerging technologies that are shaping today's data ecosystem.

1 / 1 point

- ☐ Machine Language, Cloud Computing, and Internet of Things
- ☐ Cloud Computing, Internet of Things, and Dashboarding
- ☐ Big Data, Internet of Things, and Dashboarding
- ☒ Cloud Computing, Machine Learning, and Big Data

✓ **Correct**

Emerging technologies such as Cloud Computing, Machine Learning, and Big Data are shaping today's data ecosystem and its possibilities.