Your grade: 80%

Your latest: **80%** • Your highest: **80%** • To pass you need at least 70%. We keep your highest score.

[Next item →]

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1. Which task in ETL workflow can filter data based on a criterion? **1 / 1 point**

   ○ Upload

   ● Transform

   ○ Extract

   ○ Load

   ✓ **Correct**
   Correct! Transform filters the data based on the required criteria.

---

2. How does generative AI safeguard data integrity and reliability within the repository? **1 / 1 point**

   ○ Categorize data

   ○ Automate repetitive tasks

   ○ Automate access control list

   ● Analyze data patterns

   ✓ **Correct**
   Correct! GenAI can analyze data patterns and identify anomalies or inconsistencies, flagging potential data quality issues for further investigation and correction.

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3. You want to use generative AI to find a database's total number of rows. Which prompt is most appropriate to show you the total number of rows? **1 / 1 point**

   ● What is the count of rows?

   ○ What is the quantity of rows?

   ○ What is the total of rows?

   ○ What is the sum of rows?

   ✓ **Correct**
   Correct! This prompt will give the number of rows in the database.

---

4. You use generative AI for data analysis and mining a given data set. What sequential tasks will the following prompt generate in a generative AI tool like GPT-3? **1 / 1 point**

   "Write Python code to analyze and mine Salesdata.CSV file."

   ○ Load the data set, Exploratory data analysis (EDA), Data cleaning, Data mining

   ○ Data cleaning, Exploratory data analysis (EDA), Data mining, Load the data set

   ● Load the data set, Data cleaning, Exploratory data analysis (EDA), Data mining

   ○ Load the data set, Exploratory data analysis (EDA), Data mining

   ✓ **Correct**
   Correct! The generative AI tool will give these tasks in sequence in the response.

---

5. A digital musical video company is challenged to access relevant data for different user groups. Which generative AI solution will be the most suited to provide personalized access to users? **0 / 1 point**

   ○ Stacked variational autoencoder (VAE) with separate encoders for different data modalities

○ Trained transformer with a convolutional neural network (CNN) encoder and a recurrent neural network (RNN) decoder

○ Trained transformer models on user preferences and data usage patterns

◉ Variational autoencoder (VAE) with a convolutional neural network (CNN) encoder and a recurrent neural network (RNN) decoder

⊗ **Incorrect**
Incorrect. Please review the Successful Implementations of Generative AI for ETL and Data Repositories video.

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6. Which generative AI consideration determines the explainability and interpretability of the generated output?

1 / 1 point

○ Data

◉ Model

○ Ethical

○ Cultural

✓ **Correct**
Correct! The choice of generative AI model and training parameters determines the explainability and interpretability of the generated output.

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7. Lack of data sharing can limit collaboration and hinder the development of more robust and generalizable models. What is this category of generative AI challenge?

1 / 1 point

○ Technical

○ Organizational

○ Professional

◉ Cultural

✓ **Correct**
Correct! Issues related to data sharing and collaboration come under cultural challenges.

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8. Striking a balance between model complexity and interpretability comes under which generative AI challenge?

1 / 1 point

◉ Technical

○ Personal

○ Cultural

○ Organizational

✓ **Correct**
Correct! Striking a balance between model complexity and interpretability is a technical challenge.

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9. Data engineers implement which consideration when they use robust data security measures and obtain informed consent from customers before using their data?

1 / 1 point

○ Technical

○ Data

○ Model

◉ Ethical

✓ **Correct**
Correct! Data engineers implement ethical consideration when they use robust data security measures, and obtain informed consent from customers before using their data.

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10. In the retail industry, which consideration is implemented when generative adversarial networks (GANs) are used for generating realistic product images?

0 / 1 point

○ Organizational

◉ Data

○ Model

○ Ethical