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ETL and ELT Processes

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Video: Course Intro video

5 min
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Reading: Course Introduction

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Video: ETL Fundamentals

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Video: ELT Basics

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Video: Comparing ETL to ELT

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Video: Data Extraction Techniques

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Video: Introduction to Data Transformation Techniques

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Video: Data Loading Techniques

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Ungraded Plugin: Interactivity: Tell the Difference between ETL and ELT

10 min
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Reading: Summary & Highlights

3 min
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Practice Quiz: Practice Quiz: ETL and ELT Processes

5 questions
- 📎

Quiz: Graded Quiz: ETL and ELT Processes

10 questions

Graded Quiz: ETL and ELT Processes

Quiz • 20 min

Submit your assignment

Due Jun 18, 11:59 PM EDT

Attempts 3 every 8 hours

Receive grade

To Pass 70% or higher

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1. ETL processes follow the Extract > Transform > Load. Which of these three processes is also known as data wrangling?
- ☐ Load

☒ Data wrangling is a term for another data warehouse process

☐ Transform

☐ Extraction

1 point

Start assignment

2. The ELT process has no information loss. What is the main reason for this benefit?

1 point

- ☒ Separation between moving and processing data

☐ Separates the data pipeline from processing

☐ Data source integration

☐ Data replication

3. ETL processes include a storage facility called a staging area. In ELT the staging area fits the description of what?

1 point

- ☐ Data mart

☒ Data lake

☐ Electronic repository

☐ Data warehouse

4. Which of the following pain points does ELT address?

1 point

- ☐ Lack of secure data

☐ Cost effectiveness

☐ Request for fixed processes

☒ Challenges imposed by Big Data

5. There are many techniques for extracting data. Choosing the technique usually depends on what?

1 point

- ☒ Intended use

☐ Optical or analog

☐ Operating system

☐ Type of client

6. Extracting data from IoT devices involves large volumes of redundant data. What is used to decrease the data volume of redundant data and only extract features of interest from raw data?

1 point

- ☐ Biometric sensors

☐ SQL languages

☐ APIs

☒ Edge computing

7. ETL uses the schema-on-write approach and ELT uses the schema-on-read approach. What is the biggest difference in these two approaches?

1 point

- ☐ Consistency

☐ More data access

☒ Limited versatility vs. versatility

☐ Stability

8. Which of the following examples of information loss during transformation can involve false negatives?

1 point

- ☐ Aggregation

☐ Filtering

☒ Edge computing

☐ Lossy data compression

9. Which of the following loading techniques is between batch and stream loading?

1 point

- ☐ On-demand loading

☐ Parallel loading

☒ Micro-batch loading

☐ Incremental loading

10. Which of the following loading techniques can split a single file into smaller chunks?

1 point

- ☐ Scheduled loading

☒ Parallel loading

☐ Batch loading

☐ Stream loading

Upgrade to submit

