	1. What is the first stage of the ETL process?	1/1 point
	○ Loading	
	○ Cleaning	
	○ Transformation	
	Extraction	
	 Correct The ETL stages are Extraction, Transformation, and Loading. 	
	Which of these transformations is correctly described?	1 / 1 point
	Normalizing: Converting data to common units	
	Cleaning: merging disparate data sources	
	O Data Structuring: Fixing any errors or missing values	
	O Sorting: selecting only what is needed	
	 Correct Cleaning is fixing errors. Sorting is order the data for searching. Data structuring is converting one data format to another. 	
3.	. Which of these is NOT an example of a system in the data load phase? A data warehouse	1 / 1 point
	A scanned medical document	
	O An Excel spreadsheet	
	O A comma separated file	
	 Correct A scanned medical document is an example of data in the Extraction phase. 	
4.	. Select the correct statement regarding ETL workflows as data pipelines.	1 / 1 point
	O Bottlenecks within the pipeline can often be handled by anonymizing slower tasks.	
	Overall accuracy of the ETL workflow has been a more important requirement than speed.	
	With conventional ETL pipelines data is processed in real time.	
	O Data is fed through a data pipeline in large packets.	
	 Correct Accuracy is valued over speed, although efficiency is usually an important factor in minimizing resource costs. 	

5.	Select the correct statement regarding batch processing.	1 / 1 point
	O Data is processed in batches, usually on a weekly schedule.	
	O Batch processing triggers are rarely on demand.	
	When an event of interest occurs, such as an intruder alert, the interval would be periodic.	
	Batch processing intervals can be triggered by events.	
	© Correct Examples include when the data reaches a certain size, an event of interest occurs, or on demand.	
6.	ETL pipelines are frequently used to integrate data from disparate and usually systems within the enterprise.	1/1 point
	O aggregating	
	O simultaneous	
	siloed	
	O batched	
	♥ Correct The systems within the enterprise are usually separate, that is siloed.	
7.	Select the correct statement regarding Apache Airflow.	1/1 point
	O Apache Airflow represents the workflow in DAGs, but not in code.	
	O Apache Airflow tasks can be expressed as Python, but not Bash.	
	Apache Airflow is a well-known commercial tool.	
	Apache Airflow is a workflow orchestration tool.	
	Correct Apache Airflow breaks down details of the workflow into tasks and dependencies.	
8.	Bash uses to turn your file into a Bash shell script.	1/1 point
	Oloadstat	
	O crontab	
	shebang	
	O getstat	
	Correct ETL pipelines can be built from basic Bash scripts. In the editor, type in the Bash shebang to turn your file into a Bash shell script.	

9.	SSIS, Amazon Redshift, IBM InfoSphere Information Server, and Oracle GoldenGate are examples of	1/1 point
	O Popular open-source ETL tools.	
	Popular commercial ETL tools.	
	O Popular open-source ELT tools	
	O Popular commercial ELT tools.	
	○ Correct There are many commercial ETL tools available. These of some of the most well-known.	
10.	ETL jobs can be run on a schedule using	1 / 1 point
	O getstat	
	O loadstat	
	O shebang	
	crontab	
	Correct ETL jobs can be run on a schedule using crontab. Open the crontab editor, schedule your job to run, for example, every minute of every day, close the editor, and save your edits.	