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1. Which of the following statements accurately describe data marts and data lakes? 1 / 1 point
Select all that apply.

- ☐ A data mart is a database system that stores large amounts of raw data in its original format until it's needed.
☒ A data lake is a database system that stores large amounts of raw data in its original format until it's needed.

☒ Correct

- ☒ A data mart is a subject-oriented database that can be a subset of a larger data warehouse.

☒ Correct

- ☐ A data lake is a subject-oriented database that can be a subset of a larger data warehouse.

2. Fill in the blank: A business intelligence professional gathers data, loads it into a unified destination system, and then transforms it into a useful format. They do this using an _____ data pipeline. 0 / 1 point

- ☐ oriented
☐ ELT
☐ interpreted
☒ ETL

☒ Incorrect

Review [the video about ELT, data marts, and data lakes](#).

3. Fill in the blank: Database performance is a measure of the workload that can be _____ by a database, as well as the associated costs. 1 / 1 point

- ☐ measured
☐ visualized
☒ processed
☐ stored

☒ Correct

4. Which of the following statements accurately describes workload with regards to database performance? 1 / 1 point

- ☐ Workload involves two or more components attempting to use a single resource in a conflicting way.
- ☐ Workload involves maximizing the speed and efficiency with which data is retrieved in order to ensure high levels of database performance.
- ☒ Workload is the combination of transactions, queries, analysis, and system commands being processed by the database system at any given time.
- ☐ Workload is the overall capability of the database's hardware and software to process requests.

☒ Correct

5. Which of the following statements accurately describe database resources? Select all that apply. 1 / 1 point

- ☐ Resources do not fluctuate.
- ☒ External factors can affect resource performance.

☒ Correct

- ☒ Resources can fluctuate.

☒ Correct

- ☐ Only internal factors affect resource performance.

6. Optimization involves decreasing _____, which is how long it takes for a database to respond to a user request. 1 / 1 point

- ☒ Response time
- ☐ Scope
- ☐ Contention
- ☐ Data view

☒ Correct

7. Fill in the blank: A query plan describes the _____ involved with executing a query by a relational database. 1 / 1 point

- ☒ steps
- ☐ business strategy
- ☐ spreadsheets
- ☐ reasoning

☒ Correct

8. Which of the following statements accurately describe indexes versus data partitions? Select all that apply.

0.75 / 1 point

☒ Data partitioning is typically used in cloud-based systems handling big data.

☒ Correct

☒ Data partitioning is the process of dividing a database into distinct, logical parts.

☒ Correct

☐ Indexes are organizational tags used to locate data.

☐ Indexes can only locate one section of a table at a time.

You didn't select all the correct answers

9. Fragmented data is broken up into many pieces that are not stored together. What are some common reasons for this fragmentation? Select all that apply.

1 / 1 point

☐ Using the data infrequently

☒ Modifying data files

☒ Correct

☒ Deleting data files

☒ Correct

☒ Creating new data files

☒ Correct

10. A business intelligence team can cause _____ when two or more data analysts attempt to use a single data resource in a conflicting way.

1 / 1 point

☒ contention

☐ annotation

☐ verification

☐ repetition

✓ Correct