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### DASCA Senior Data Scientist Sample Questions (Q74-Q79):

#### NEW QUESTION # 74

A workflow refers to a:

- A. Indirected cyclic graph
- B. Directed cyclic graph
- C. Indirected acyclic graph
- D. **Directed acyclic graph**

**Answer: D**

Explanation:

In data pipelines and process orchestration, a workflow is represented as a Directed Acyclic Graph (DAG):

Directed: Each edge has a direction, representing task dependencies.

Acyclic: No cycles exist; tasks must follow a sequence without looping back.

Graph: Represents tasks as nodes and dependencies as edges.

This structure is common in tools like Apache Airflow, Spark DAGs, and Hadoop MapReduce job schedulers.

Option A & B: Incorrect, as workflows cannot have cycles (would cause infinite loops).

Option D: Incorrect, because workflows are directed, not indirected.

Thus, the correct answer is Option C (Directed Acyclic Graph).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Data Engineering Architectures: Workflow Management with DAGs.

### NEW QUESTION # 75

Which of the following is TRUE for "By" analysis?

- A. Both B and C
- **B. All of the above**
- C. "By" analysis is a technique by which business subject matter experts (SMEs) and the Data Science team could collaborate to uncover new variables and metrics that might be better predictors of business performance.
- D. The "By" analysis technique reinforces the process of "thinking like a data scientist."
- E. "By" analysis is used to create a collaborative technique to drive alignment between the business users and the data scientists to identify and brainstorm variables and metrics that might be better predictors of business performance.

**Answer: B**

Explanation:

"By" analysis is one of the foundational approaches recommended in the DASCA Data Scientist Knowledge Framework for structuring problem-solving in data science. The purpose of "By" analysis is to enable data scientists and business stakeholders to think beyond obvious data correlations and uncover deeper drivers of business outcomes.

At its core, the technique reinforces the discipline of thinking like a data scientist (Option A). This involves reframing business questions into analytical structures and asking "What drives this metric by which factors?" For example, customer churn might be analyzed by demographics, purchase behavior, or service usage. This structured mindset is critical for ensuring scientific rigor in business problem analysis.

In addition, "By" analysis emphasizes collaboration between Subject Matter Experts (SMEs) and Data Science teams (Option B). SMEs bring contextual domain knowledge, while data scientists bring analytical and statistical expertise. Together, they brainstorm possible explanatory variables or metrics that could become strong predictors of business performance.

Furthermore, the process provides a collaborative bridge between business and technical stakeholders (Option C). It ensures that the exploration of data is not isolated in silos but is grounded in both domain insights and advanced analytical methods. This alignment is crucial for building models that are not only technically sound but also relevant and actionable in real-world business contexts.

Since Options A, B, and C are correct and complementary, the best choice is Option E: All of the above.

Reference: DASCA Data Scientist Knowledge Framework (DSKF) - Data Science Process Fundamentals & Collaborative Analysis Techniques (Official DASCA Study & Exam Preparation Guide).

### NEW QUESTION # 76

Which of these are open-source column-oriented databases?

- A. HBase
- B. Accumulo
- **C. All of the above**
- D. Both A and B
- E. Cassandra

**Answer: C**

Explanation:

Column-oriented databases store data by columns rather than by rows, enabling efficient queries over large datasets, especially in analytical workloads.

Cassandra (Option A): An open-source, highly scalable, distributed column-oriented NoSQL database.

HBase (Option B): An open-source, Hadoop-based, column-family NoSQL database modeled after Google BigTable.

Accumulo (Option C): An open-source, secure, sorted, distributed key/value store built on top of HDFS and based on Google BigTable.

Since all three (A, B, and C) are open-source column-oriented databases, the correct answer is Option E (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Big Data Fundamentals: Columnar Databases & NoSQL Ecosystem

### NEW QUESTION # 77

Which of the following is NOT a process of Use Case?

- A. Identify your key business stakeholders

- B. Capture the decisions that the key business stakeholders need to make in order to support the organization's key business initiatives
- **C. Brainstorm the outcomes that the key stakeholders need to answer to facilitate making the decisions**
- D. Understand your organization's key business initiatives or business challenge
- E. Brainstorm the questions that the key stakeholders need to answer to facilitate making the decisions

**Answer: C**

Explanation:

Use Case Development in data science projects involves identifying business needs and mapping analytics to business decisions. The standard steps include:

Option A: Understanding the key initiatives or challenges.

Option B: Identifying the key stakeholders.

Option C: Capturing the decisions stakeholders must make.

Option E: Brainstorming the questions stakeholders need answered to support decisions.

However:

Option D (Brainstorm the outcomes stakeholders need to answer): Incorrect phrasing. It is not "outcomes" that are brainstormed but questions and decisions.

Thus, the correct answer is Option D.

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Business Use Case Development Process.

**NEW QUESTION # 78**

What is Scrumban?

- A. It is Kanban
- B. It is Scrum
- C. It combines the principles of Scrum and Kanban into a push-based system
- **D. It combines the principles of Scrum and Kanban into a pull-based system**

**Answer: D**

Explanation:

Scrumban is a hybrid Agile methodology that merges Scrum and Kanban to take advantage of the strengths of both.

From Scrum, Scrumban adopts structured sprint planning, roles, and iterative review cycles.

From Kanban, it borrows the visual board system, continuous workflow management, and the pull-based approach, where tasks are pulled into the workflow only when capacity is available.

The pull-based system ensures that teams do not overload themselves and helps manage work-in-progress (WIP) effectively. This makes Scrumban particularly suitable for projects with frequent changes, ongoing maintenance tasks, or teams transitioning from Scrum to Kanban.

Thus, the correct answer is Option C.

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Agile Project Management Techniques for Data Science.

**NEW QUESTION # 79**

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