

DP-900

Real Exam Questions & Answers

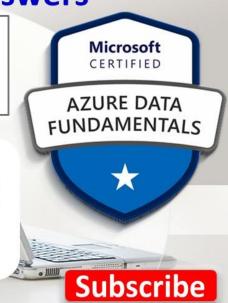
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Question 241 CertylQ

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point. Hot Area:

Answer Area

Statements	Yes	No
Stream processing has access to the most recent data received or data within a rolling time window.	0	0
Batch processing must occur immediately and have latency in the order of seconds or milliseconds.	0	0
Stream processing is used for simple response functions, aggregates, or calculations such as rolling averages.	0	0

	Answer Area		
	Statements	Yes	No
Suggested Answer:	Stream processing has access to the most recent data received or data within a rolling time window.	0	0
	Batch processing must occur immediately and have latency in the order of seconds or milliseconds.	0	0
	Stream processing is used for simple response functions, aggregates, or calculations such as rolling averages.	0	0

Correct Answer: YNN

first question:

according to the link is yes:

Data scope: Batch processing can process all the data in the dataset. Stream processing typically only has access to the most recent data received, or within a rolling time window (the last 30 seconds, for example).

https://docs.microsoft.com/en-us/learn/modules/explore-fundamentals-stream-processing/2-batch-stream

Question 242 CertylQ

You need to perform hybrid transactional and analytical processing (HTAP) queries against Azure Cosmos DB data sources by using Azure Synapse Analytics.

What should you use?

- A. Synapse pipelines
- B. a Synapse SQL pool

C. Synapse Link

D. Synapse Studio

Explanation:

Correct Answer: C

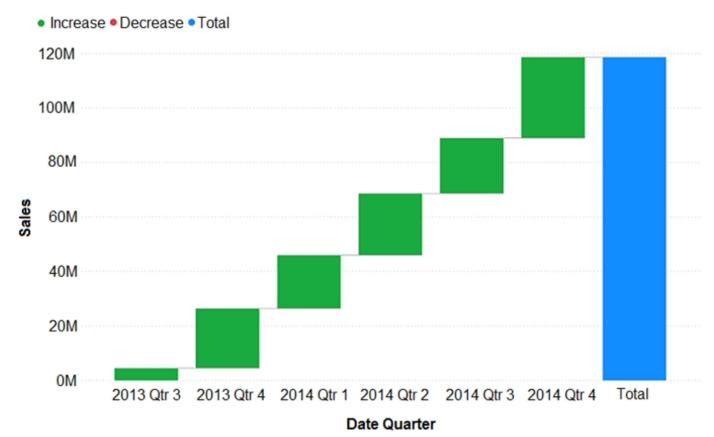
Reference:

https://docs.microsoft.com/en-us/azure/cosmos-db/synapse-link

Question 243 CertylQ

You need to create a visualization of running sales totals per quarter as shown in the following exhibit.

Sales by Year and Quarter



What should you create in Power BI Desktop?

A. a waterfall chart

- B. a ribbon chart
- C. a bar chart
- D. a decomposition tree

Explanation:

Correct Answer: A

Reference:

https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-types-for-reports-and-q-and-a

Question 244 CertylQ

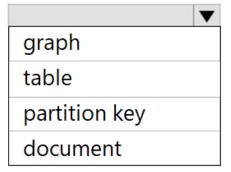
HOTSPOT -

Select the answer that correctly completes the sentence.

Answer Area

When using the Azure Cosmos DB Gremlin API, the container

resource type is projected as a

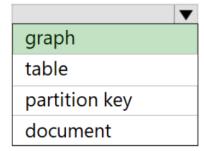


Answer Area

When using the Azure Cosmos DB Gremlin API, the container

resource type is projected as a

Suggested Answer:



Explanation:

Correct Answer: Graph

Question 245 CertylQ

You have the following two tables of customer data.

CustomerID	NameStyle	Title	FirstName	MiddleName	LastName
29486	0	Ms.	Kim	NULL	Abercrombie
29489	0	Ms.	Frances	B.	Adams
29490	0	Ms.	Margaret	J.	Smith
29492	0	Mr.	Jay	NULL	Adams

CustomerID	AddressID	AddressType	ModifiedDate
29486	621	Main Office	9/1/05 0:00
29489	1069	Main Office	7/1/05 0:00
29490	887	Main Office	9/1/06 0:00
29492	618	Main Office	12/1/06 0:00
29494	537	Main Office	9/1/05 0:00

Which type of data do the tables contain?

A. structured

- B. non-relational
- C. semi-structured
- D. unstructured

Explanation:

Correct Answer: A

It is very structured the two tables

Question 246 CertylQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

You can query a graph database in Azure Cosmos DB

as nodes and edges by using the Gremlin language
as partitioned row store by using Cassandra Query Language (CQL)
as partitioned row store by using Language-Integrated Query (LINQ)

Suggested Answer:

Answer Area

You can query a graph database in Azure Cosmos DB

as nodes and edges by using the Gremlin language
as partitioned row store by using Cassandra Query Language (CQL)
as partitioned row store by using Language-Integrated Query (LINQ)

Correct Answer:

as nodes and edges by using the Gremlin Language

https://docs.microsoft.com/en-us/azure/cosmos-db/graph/tutorial-guery-graph?source=recommendations

Question 247 CertylQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

An extract, transform, and load (ETL) process requires

a matching schema in the data source and the data target
a target data store powerful enough to transform data
data that is fully processed before being loaded to the target data store
that the data target be a relational database

Suggested Answer:

Answer Area

An extract, transform, and load (ETL) process requires

a matching schema in the data source and the data target a target data store powerful enough to transform data data that is fully processed before being loaded to the target data store that the data target be a relational database

Question 248 CertylQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

Batch workloads

always process data in memory, row-by-row
collect and process data at most once a day
process data as new data is received in near real-time
collect data and then process the data when a condition is met

Suggested Answer:

Answer Area

Batch workloads

always process data in memory, row-by-row

collect and process data at most once a day

process data as new data is received in near real-time

collect data and then process the data when a condition is met

Question 249 CertylQ

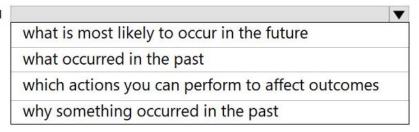
HOTSPOT -

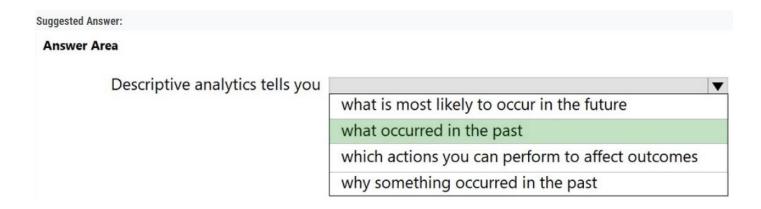
Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

Descriptive analytics tells you





Question 250 CertylQ

What is a function of a modern data warehouse?

- A. supports batch processing only
- B. supports real-time and batch processing

C. provides built-in or native online analytical processing

D. stores raw data only

Explanation:

Correct Answer: C

A data warehouse is a centralized repository of integrated data from one or more disparate sources. Data warehouses store current and historical data and are used for reporting and analysis of the data.

The purpose of the analytical data store layer is to satisfy queries issued by analytics and reporting tools against the data warehouse.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/data-quide/relational-data/data-warehousing

Question 251 CertylQ

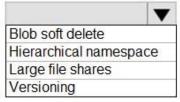
HOTSPOT -

Select the answer that correctly completes the sentence.

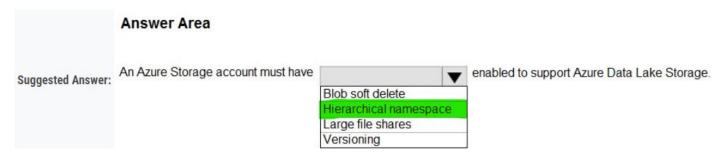
Hot Area:

Answer Area

An Azure Storage account must have



enabled to support Azure Data Lake Storage.



Correct Answer:

hierarchical namespace

https://docs.microsoft.com/en-us/azure/storage/blobs/create-data-lake-storage-account

Question 252 CertylQ

What can be used with native notebook support to query and visualize data by using a web-based interface?

A. Azure Databricks

- B. pgAdmin
- C. Microsoft Power BI

Explanation:

Correct Answer: A

A Azure Databricks

https://docs.microsoft.com/en-us/azure/databricks/notebooks/visualizations/

Question 253 CertylQ

You have data saved in the following format.

Which format was used?

- A. XML
- B. HTML



D JSON is correct

Question 254 CertylQ

You have data saved in the following format.

Which format was used?

- A. JSON
- B. YAML
- C. HTML
- D. XML

Explanation:

Correct Answer: D

D XML is correct. The syntax is clearly XML, not YAML. See https://en.wikipedia.org/wiki/YAML#Example

XML start with tagging <> and end with </> to be easy to see.

Question 255 CertylQ

Which database transaction property ensures that transactional changes to a database are preserved during unexpected operating system restarts?

- A. consistency
- B. atomicity
- C. durability
- D. isolation

Correct Answer: C

C durability

Question 256

CertyIQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

A relational database must be used when



a dynamic schema is required.
data will be stored as key/value pairs.
storing large images and videos.
strong consistency guarantees are required.

Suggested Answer:

Answer Area

A relational database must be used when



a dynamic schema is required.
data will be stored as key/value pairs.
storing large images and videos.
strong consistency guarantees are required.

Explanation:

Correct Answer:

Relational databases need strong consistency

Question 257

CertylQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Answer Area

Relational data is stored in

a file system as unstructured data. a hierarchal folder structure. a tabular form of rows and columns.

comma-separated value (CSV) files.

Suggested Answer: Relational data is stored in

Answer Area

a file system as unstructured data. a hierarchal folder structure. a tabular form of rows and columns. comma-separated value (CSV) files.

Explanation:

Correct Answer:

C tabular form is correct

Question 258 CertylQ

Which database transaction property ensures that individual transactions are executed only once and either succeed in their entirety or roll back?

- A. atomicity
- B. durability
- C. isolation
- D. consistency

Explanation:

Correct Answer: A

Atomicity is the right answer.

An atomic transaction is an indivisible and irreducible series of database operations such that either all occurs, or nothing occurs. A guarantee of atomicity prevents updates to the database occurring only partially, which can cause greater problems than rejecting the whole series outright. As a consequence, the transaction cannot be observed to be in progress by another database client.

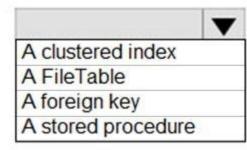
Question 259 CertylQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area



is an object associated with a table that sorts on their key values.



Answer Area

A stored procedure

is an object associated with a table that sorts on their key values.

Explanation:

Correct Answer: A - clustered index

Question 260 CertyIQ

Which Azure Storage service implements the key/value model?

- A. Azure Queue
- B. Azure Files

C. Azure Table

D. Azure Blob

Explanation:

Correct Answer: C Azure Table

Question 261 CertylQ

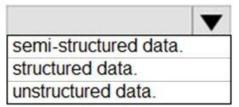
HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

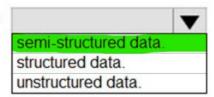
Answer Area

Social media users and followers in a graph database is an example of



Answer Area

Suggested Answer: Social media users and followers in a graph database is an example of



Explanation:

Correct Answer: Graph database is a semi-structured data type

Question 262 CertylQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

In a data warehousing workload, data

from a single source is distributed to multiple locations. from multiple sources is combined in a single location. is added to a queue for multiple systems to process. is used to train machine learning models.

Answer Area

Suggested Answer:

In a data warehousing workload, data

from a single source is distributed to multiple locations. from multiple sources is combined in a single location. is added to a queue for multiple systems to process. is used to train machine learning models.

Explanation:

Correct Answer: B

Question 263

CertylQ

You plan to deploy an app. The app requires a nonrelational data service that will provide latency guarantees of less than 10-ms for reads and writes.

What should you include in the solution?

- A. Azure Blob storage
- B. Azure Files
- C. Azure Table storage

D. Azure Cosmos DB

Explanation:

Correct Answer: D

Question 264

CertylQ

HOTSPOT -

Select the answer that correctly completes the sentence.

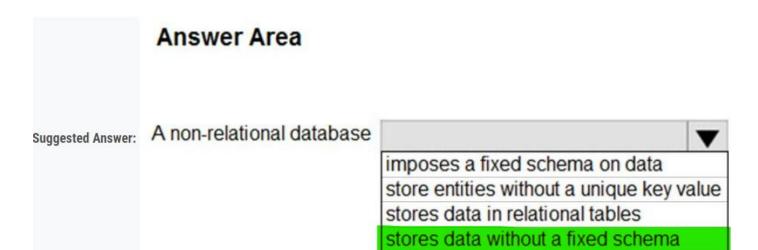
Hot Area:

Answer Area

A non-relational database



imposes a fixed schema on data store entities without a unique key value stores data in relational tables stores data without a fixed schema



Correct Answer: D

Non-relational database cannot have relation tables.

Question 265	CertylQ
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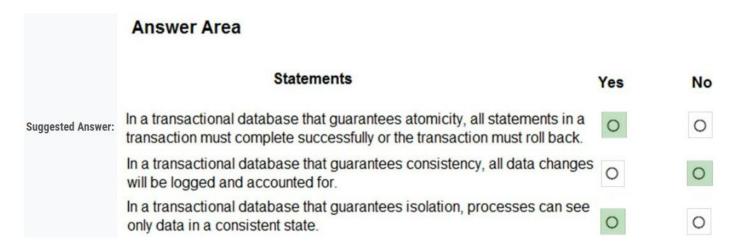
HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
In a transactional database that guarantees atomicity, all statements in a transaction must complete successfully or the transaction must roll back.	0	0
In a transactional database that guarantees consistency, all data changes will be logged and accounted for.	0	0
In a transactional database that guarantees isolation, processes can see only data in a consistent state.	0	0



Correct Answer:

Y- Atomicity should be present in a OLTP database

N

Υ

Question 266 CertylQ

You have data saved in the following format.

FirstName, LastName, Age, LeisureHobby, SportsHobby John, Smith, 23, Reading, Backteball Ben, Smith, 21, Guitar Curling

Which format was used?

A. YAML



C. JSON

D. HTML

Explanation:

Correct Answer: B CSV

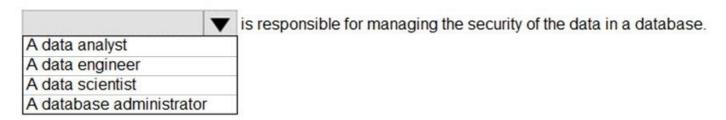
Question 267 CertylQ

OTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area





Explanation:

Correct Answer: DBA

Question 268 CertylQ

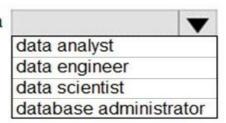
HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

Backing up and restoring data are the responsibilities of a



Answer Area Suggested Answer: Backing up and restoring data are the responsibilities of a data analyst data engineer data scientist database administrator

Explanation:

Question 269 CertylQ

What is required to provision Azure Data Lake Storage in an Azure Storage account?

- A. Versioning must be disabled.
- B. Hierarchical namespace must be disabled.
- C. Versioning must be enabled.

D. Hierarchical namespace must be enabled.

Explanation:

Correct Answer D.

https://azure.microsoft.com/en-us/updates/general-availability-enable-hierarchical-namespace-for-existing-azurestorage-accounts/

Question 270 CertylQ

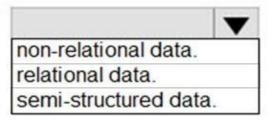
HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

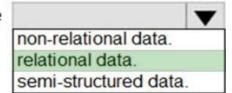
Answer Area

Microsoft SQL Server database tables store



Answer Area

Suggested Answer: Microsoft SQL Server database tables store



Explanation:

Correct Answer: B

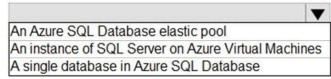
Question 271 CertyIQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

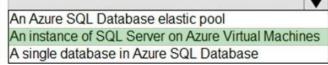
Answer Area



can be used as part of a lift-and-shift solution for migrating an on-premises application to the cloud with minimal changes.

Suggested Answer:

Answer Area



can be used as part of a lift-and-shift solution for migrating an on-premises application to the cloud with minimal changes.

Explanation:

Correct Answer: B

A SQL Server instance in a VM is basically nothing else than a SQL Server on-premises.

It is a migration strategy that involves moving data and applications from an on-premises location to Azure-based virtual machines in the cloud.

Question 272

CertylQ

HOTSPOT -

Select the answer that correctly completes the sentence.

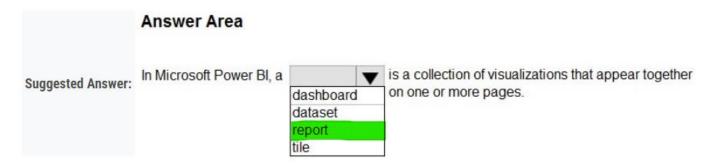
Hot Area:

Answer Area

In Microsoft Power Bl, a



is a collection of visualizations that appear together on one or more pages.



Correct Answer: report. Reports are collections of visualizations on one or more pages.

Ref: https://learn.microsoft.com/en-us/power-bi/consumer/end-user-basic-concepts

Question 273 CertylQ

DRAG DROP -

Match the processes to the appropriate scenarios.

To answer, drag the appropriate process from the column on the left to its scenario on the right. Each process may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point. Select and Place: **Processes Answer Area** Data is retrieved and processed before being Data ingestion saved to a target system Extract, load, and transform Data is saved to a target system, and then (ELT) processing processed Extract, transform, and load (ETL) processing Data is extracted from a source system, and then saved to a target system Suggested Answer: **Processes Answer Area** Data is retrieved and processed before being Extract, transform, and load Data ingestion saved to a target system (ETL) processing Extract, load, and transform Data is saved to a target system, and then Extract, transform, and load (ELT) processing (ETL) processing processed Extract, transform, and load Data is extracted from a source system, and (ETL) processing Data ingestion then saved to a target system

Explanation:

Correct Answer: ETL,ELT,Data ingest

Question 274 CertylQ

What is used to define a query in a stream processing jobs in Azure Stream Analytics?

A. YAML

B. KQL

C. SQL

D. XML

Explanation:

Correct Answer: C

Azure Stream Analytics uses a SQL query language

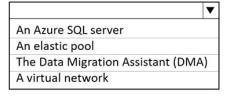
https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-introduction

Question 275 CertylQ

HOTSPOT -

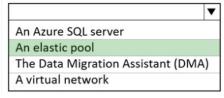
Select the answer that correctly completes the sentence.

Hot Area:



enables multiple Azure SQL databases to share resources such as memory, data storage space, and processing power.

Suggested Answer:



enables multiple Azure SQL databases to share resources such as memory, data storage space, and processing power.

Explanation:

Correct Answer: Elastic Pool

Question 276 CertylQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

XML-formatted files are examples of



XML-formatted files are examples of

Suggested Answer:

relational data.

semi-structured data.

unstructured data.

Explanation:

Correct Answer: B. Semi-Structured

Question 277 CertylQ

In a fully normalized database, how is data read and written for a single entity?

- A. Data is read from multiple tables and written to multiple tables.
- B. Data is read from a single table and written to a single table.
- C. Data is read from a single table and written to multiple tables.
- D. Data is read from multiple tables and written to a single table.

Explanation:

Correct Answer: D

D - Data is read from multiple tables and written to a single table.

Question 278 CertylQ

What is a primary characteristic of a relational database?

A. a flexible data structure

- B. data is queried and manipulated by using a variant of the SQL language
- C. a lack of dependencies between tables
- D. a large amount of duplicate data

Explanation:

Correct Answer: B

B. data is queried and manipulated by using a variant of the SQL language

Question 279 CertyIQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area



clause can be used in Data Manipulation Language (DML) statements to specify the criteria that rows must match.

Suggested Answer:

Answer Area ne ALTER JOIN SET WHERE

clause can be used in Data Manipulation Language (DML) statements to specify the criteria that rows must match.

Explanation:

Correct Answer: WHERE

Question 280 CertylQ

Which statement is an example of Data Manipulation Language (DML)?

A. GRANT

B. INSERT

C. REVOKE

D. DROP

Explanation:

Correct Answer: B

Question 281 CertylQ

What is a characteristic of a non-relational database?

- A. full support for Transact-SQL
- B. a fixed schema

C. self-describing entities

Explanation:

Correct Answer:

 $\frac{https://www.coursera.org/lecture/explore-core-data-concepts-microsoft-azure/explore-the-characteristics-of-non-relational-data-nP41V$

Question 282 CertyIQ

What should you use to automatically delete blobs from Azure Blob Storage?

- A. archive storage
- B. the change feed
- C. soft delete

D. a lifecycle management policy

Explanation:

Correct Answer: D

https://learn.microsoft.com/en-us/azure/storage/blobs/lifecycle-management-overview

Question 283 CertylQ

In Azure Table storage, each row in a table must be uniquely identified by which two components? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. a partition key

B. a range

C. a row key

D. a timestamp

Explanation:

Correct Answer: AC

Question 284 CertylQ

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area





Correct Answer: Data Analyst

Question 285 CertylQ

You need to store event log data that is semi-structured and received as the logs occur.

What should you use?

- A. Azure Table storage
- B. Azure Queue storage
- C. Azure Files

Explanation:

Correct Answer: C

Question 286 CertylQ

Which Azure Cosmos DB API should you use for a graph database?

- A. Table
- B. Cassandra
- C. Core (SQL)
- D. Gremlin

Explanation:

Correct Answer: D

Question 287 CertyIQ

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Azure Data Lake storage can be used as a staging area for ingested data before the data is converted into a format suitable for performing analytics.	0	0
Azure Data Factory is an analytics engine that uses a massively parallel processing (MPP) architecture.	0	0
Azure HDInsight enables you to build tabular models from multiple data sources to support online analytical processing (OLAP) queries.	0	0

Statements Statements Yes No Azure Data Lake storage can be used as a staging area for ingested data before the data is converted into a format suitable for performing analytics. Azure Data Factory is an analytics engine that uses a massively parallel processing (MPP) architecture. Azure HDInsight enables you to build tabular models from multiple data sources to support online analytical processing (OLAP) queries.

Explanation:

Correct Answer: Y,N,N

https://learn.microsoft.com/en-us/training/modules/intro-to-azure-data-lake-storage/1-introduction

https://learn.microsoft.com/en-us/training/modules/intro-to-azure-data-factory/2-what-is-azure-data-factory

https://learn.microsoft.com/en-us/training/modules/intro-to-azure-hdinsight/2-what-is-azure-hdinsight

Question 288 CertylQ

A bank has a system that manages financial transactions.

When transferring money between accounts, the system must never retrieve a value for the source account that reflects the balance before the transfer and a value for the destination account that reflects the balance after the transfer.

Of which ACID semantic is this an example?

- A. atomicity
- B. durability
- C. consistency

D. isolation

Explanation:

Correct Answer: D



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