DP-900^{Q&As}

Microsoft Azure Data Fundamentals

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QUESTION 1

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 Cosmos

B. Azure Table storage

C. Azure Files

D. Azure Blob storage

Correct Answer: A

QUESTION 2

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

An instance of SQL Server on Azure Virtual Machines

can be used as part of a lift-and-shift solution for migrating

an on-premises application to the cloud with minimal changes.

Correct Answer:

Answer Area

An instance of SQL Server on Azure Virtual Machines

can be used as part of a lift-and-shift solution for migrating

an on-premises application to the cloud with minimal changes.

QUESTION 3

You have an application that runs on Windows and requires across to a mapped drive. Which Azure service should you

use?

A. Azure Cosmos DB

B. Azure Table storage

C. Azure Files

D. Azure Blob Storage

Correct Answer: C

QUESTION 4

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:

	Yes	No
If you have a platform as a service (PaaS) database in Azure, you are responsible for applying operating system updates.	○	○
If you have a platform as a service (PaaS) database in Azure, backups are performed automatically.	○	○
If you have a platform as a service (PaaS) database in Azure, you are responsible for upgrading the database engine.	○	○

Correct Answer:

	Yes	No
If you have a platform as a service (PaaS) database in Azure, you are responsible for applying operating system updates.	○	◉
If you have a platform as a service (PaaS) database in Azure, backups are performed automatically.	◉	○
If you have a platform as a service (PaaS) database in Azure, you are responsible for upgrading the database engine.	○	◉

Box 1: No

Microsoft handles all patching and updating of the SQL and operating system code. You don\'t have to manage the underlying infrastructure.

Box 2: Yes

SQL Database is a fully managed service that has built-in high availability, backups, and other common maintenance operations.

Box 3: No

Reference: https://docs.microsoft.com/en-us/azure/azure-sql/database/sql-database-paas-overview

QUESTION 5

Which T-SQL statement should be used to instruct a database management system to use an index instead of performing a full table scan?

A. WHERE

B. SELECT

C. JOIN

Correct Answer: B

QUESTION 6

HOTSPOT

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

When provisioning an Azure Cosmos DB ▼ ,

| account |
| container |
| database |
| item |

you need to specify which type of API you will use.

Correct Answer:

When provisioning an Azure Cosmos DB ▼ ,

| account |
| container |
| database |
| item |

you need to specify which type of API you will use.

QUESTION 7

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

A. INSERT

B. DISABLE

C. ALTER

D. DROP

Correct Answer: A

Data Manipulation Language (DML) statements: DELETE INSERT UPDATE Reference: https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-reference-tsql-statements

QUESTION 8

DRAG DROP Your company plans to load data from a customer relationship management (CRM) system to a data warehouse by using an extract, load, and transform (ELT) process. Where does data processing occur for each stage of the ELT process? To answer, drag the appropriate locations to the correct stages. Each location may be used once, more than once, or not at all. You may need to drag the split bar

between panes or scroll to view content. NOTE: Each correct selection is worth one point. Select and Place:

An in memory data integration too	Extract — Location
The data warehouse	Load — Location
The CRM system	Transform — Location

Correct Answer:

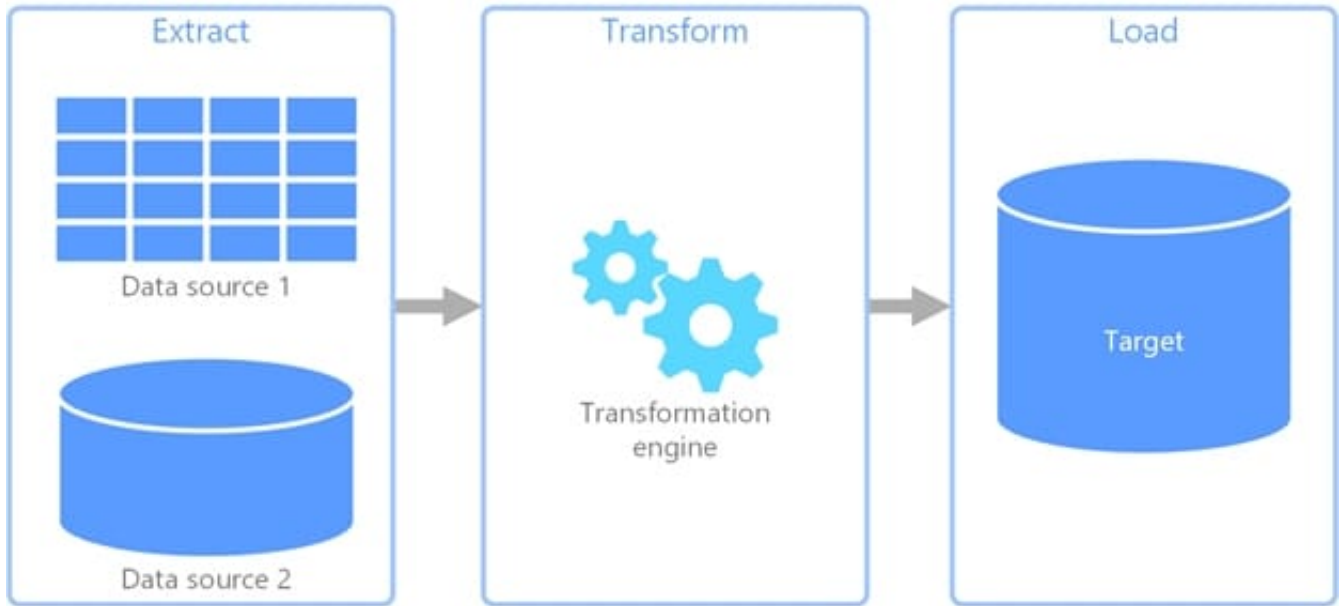|	
	Extract — The CRM system
	Load — The data warehouse
	Transform — An in memory data integration too

Box 1: The CRM system

Data is extracted from the CRM system.

Box 2: The data warehouse

Data is loaded to the data warehouse.

Box 3: An in-memory data integration tool

The data transformation that takes place usually involves various operations, such as filtering, sorting, aggregating, joining data, cleaning data, deduplicating, and validating data.

Reference: https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/etl

QUESTION 9

HOTSPOT

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

In Azure Data Factory, you can use [▼] to orchestrate pipeline

a control flow
a dataset
a linked service
an integration runtime

activities that depend on the output of other pipeline activities

Correct Answer:

In Azure Data Factory, you can use [a control flow ▼ / a dataset / a linked service / an integration runtime] to orchestrate pipeline

activities that depend on the output of other pipeline activities

Reference: https://docs.microsoft.com/en-us/azure/data-factory/frequently-asked-questions

QUESTION 10

What Is a benefit of hosting a database on Azure SQL managed instance as compared to an Azure SQL database?

A. native support for cross-database queries and transactions

B. built-in high availability

C. system-Initiated automatic backups

D. support for encryption at rest

Correct Answer: A

Reference: https://docs.microsoft.com/en-us/azure/azure-sql/database/features-comparison

QUESTION 11

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:

Statements	Yes	No
The Azure Cosmos DB API is configured separately for each database in an Azure Cosmos DB account.	○	○
Partition keys are used in Azure Cosmos DB to optimize queries.	○	○
Items contained in the same Azure Cosmos DB logical partition can have different partition keys.	○	○

Correct Answer:

Statements	Yes	No
The Azure Cosmos DB API is configured separately for each database in an Azure Cosmos DB account.	○ (selected)	○
Partition keys are used in Azure Cosmos DB to optimize queries.	○	○ (selected)
Items contained in the same Azure Cosmos DB logical partition can have different partition keys.	○	○ (selected)

QUESTION 12

Your company needs to implement a relational database in Azure. The solution must minimize ongoing maintenance. Which Azure service should you use?

A. Azure HDInsight

B. Azure SQL Database

C. Azure Cosmos DB

D. SQL Server on Azure virtual machines

Correct Answer: B

Reference: https://azure.microsoft.com/en-us/services/sql-database/#features

QUESTION 13

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:

Statements	Yes	No
Azure Table storage within a single Azure Storage account supports multiple concurrent reads in different Azure regions.	○	○
Azure Table storage within a single Azure Storage account supports multiple concurrent writes in different Azure regions.	○	○
An Azure Cosmos DB account that uses the Table API supports multiple concurrent reads in different Azure regions.	○	○
An Azure Cosmos DB account that uses the Table API supports multiple concurrent writes in different Azure regions.	○	○

Correct Answer:

Statements	Yes	No
Azure Table storage within a single Azure Storage account supports multiple concurrent reads in different Azure regions.	●	○
Azure Table storage within a single Azure Storage account supports multiple concurrent writes in different Azure regions.	○	●
An Azure Cosmos DB account that uses the Table API supports multiple concurrent reads in different Azure regions.	●	○
An Azure Cosmos DB account that uses the Table API supports multiple concurrent writes in different Azure regions.	●	○

Box 1: Yes For read access to the secondary region, configure your storage account to use read- access geo-redundant storage (RA-GRS) or read-access geo-zone-redundant storage (RA-GZRS). Box 2: No

Box 3: Yes Box 4: Yes Azure Cosmos DB supports multi-region writes.

QUESTION 14

Which type of database contains nodes and edges?

A. graph

B. columnar

C. key/value

D. time series

Correct Answer: A

QUESTION 15

Which type of non-relational data store supports a flexible schema, stores data as JSON files, and stores the all the data for an entity in the same document?

A. document

B. columnar

C. graph

D. time series

Correct Answer: A

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