

# DP-300 Exam Resources & DP-300 Best Questions & DP-300 Exam Dumps



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Microsoft DP-300 Exam covers a broad range of topics related to database administration on Azure. Administering Relational Databases on Microsoft Azure certification exam focuses on various aspects of database management, such as the creation and management of Azure SQL databases, data security and compliance, performance tuning, disaster recovery, and high availability. With DP-300 exam, professionals can demonstrate their knowledge in managing and monitoring databases on Azure.

## Administration tasks with the use of T-SQL

- System health assessment
  - Utilizing DBCC for database consistency checks
  - The use of DMVs for examining health of servers and databases
- Monitoring of database configuration
  - The configuration of database autogrowth
  - Reviewing options for database configuration
  - Database free space reports
- Using T-SQL for restoration and backups
  - Performing database backups and transaction log backups
  - Restoring user databases
  - Always On Availability Groups and preparing databases for them
- Management of authorization and authentication
  - Handling security principals and certificates
  - The configuration of permissions

>> Interactive DP-300 Testing Engine <<

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## Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q122-Q127):

### NEW QUESTION # 122

You have an Azure key vault named Vault1 and a SQL Server on Azure Virtual Machines instance named SQL1. SQL1 hosts a database named DB1.

You need to configure Transparent Data Encryption (TDE) on DB1 to use a key in Vault1. Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

#### Answer:

Explanation:

- 1 - Create an Azure AD service principal and grant the service principal permission for Vault1.
- 2 - On SQL1, create an asymmetric key.
- 3 - On SQL1, create a cryptographic provider and a Microsoft SQL Server credential.
- 4 - On SQL1, create a login from the asymmetric key.

### NEW QUESTION # 123

Case Study 3 - Contoso, Ltd 2

Overview

Contoso, Ltd. is a clothing retailer based in Seattle. The company has 2,000 retail stores across the United States and an emerging online presence.

The network contains an Active Directory forest named contoso.com. The forest is integrated with an Azure Active Directory (Azure AD) tenant named contoso.com. Contoso has an Azure subscription associated to the contoso.com Azure AD tenant.

Existing Environment

Transactional Data

Contoso has three years of customer, transaction, operational, sourcing, and supplier data comprised of 10 billion records stored across multiple on-premises Microsoft SQL Server servers.

The SQL Server instances contain data from various operations systems. The data is loaded into the instances by using SQL Server Integration Services (SSIS) packages.

You estimate that combining all product sales transactions into a company-wide sales transactions dataset will result in a single table that contains 5 billion rows, with one row per transaction.

Most queries targeting the sales transactions data will be used to identify which products were sold in retail stores and which products were sold online during different time periods. Sales transaction data that is older than three years will be removed monthly.

You plan to create a retail store table that will contain the address of each retail store. The table will be approximately 2 MB.

Queries for retail store sales will include the retail store addresses.

You plan to create a promotional table that will contain a promotion ID. The promotion ID will be associated to a specific product.

The product will be identified by a product ID. The table will be approximately 5 GB.

Streaming Twitter Data

The ecommerce department at Contoso develops an Azure logic app that captures trending Twitter feeds referencing the company's products and pushes the products to Azure Event Hubs.

Planned Changes and Requirements

Planned Changes

Contoso plans to implement the following changes:

Load the sales transaction dataset to Azure Synapse Analytics.

Integrate on-premises data stores with Azure Synapse Analytics by using SSIS packages.

Use Azure Synapse Analytics to analyze Twitter feeds to assess customer sentiments about products.

Sales Transaction Dataset Requirements

Contoso identifies the following requirements for the sales transaction dataset:

Partition data that contains sales transaction records. Partitions must be designed to provide efficient loads by month. Boundary values must belong to the partition on the right.

Ensure that queries joining and filtering sales transaction records based on product ID complete as quickly as possible.

Implement a surrogate key to account for changes to the retail store addresses.

Ensure that data storage costs and performance are predictable.

Minimize how long it takes to remove old records.

Customer Sentiment Analytics Requirements

Contoso identifies the following requirements for customer sentiment analytics:

Allow Contoso users to use PolyBase in an Azure Synapse Analytics dedicated SQL pool to query the content of the data records that host the Twitter feeds. Data must be protected by using row-level security (RLS). The users must be authenticated by using their own Azure AD credentials.

Maximize the throughput of ingesting Twitter feeds from Event Hubs to Azure Storage without purchasing additional throughput or capacity units.

Store Twitter feeds in Azure Storage by using Event Hubs Capture. The feeds will be converted into Parquet files.

Ensure that the data store supports Azure AD-based access control down to the object level.

Minimize administrative effort to maintain the Twitter feed data records.

Purge Twitter feed data records that are older than two years.

Data Integration Requirements

Contoso identifies the following requirements for data integration:

Use an Azure service that leverages the existing SSIS packages to ingest on-premises data into datasets stored in a dedicated SQL pool of Azure Synapse Analytics and transform the data.

Identify a process to ensure that changes to the ingestion and transformation activities can be version-controlled and developed independently by multiple data engineers.

Hotspot Question

You need to design an analytical storage solution for the transactional data. The solution must meet the sales transaction dataset requirements.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation:

Box 1: Hash

Scenario:

Ensure that queries joining and filtering sales transaction records based on product ID complete as quickly as possible.

A hash distributed table can deliver the highest query performance for joins and aggregations on large tables.

Box 2: Round-robin

Scenario:

You plan to create a promotional table that will contain a promotion ID. The promotion ID will be associated to a specific product.

The product will be identified by a product ID. The table will be approximately 5 GB.

A round-robin table is the most straightforward table to create and delivers fast performance when used as a staging table for loads.

These are some scenarios where you should choose Round robin distribution:

When you cannot identify a single key to distribute your data.

If your data doesn't frequently join with data from other tables.

When there are no obvious keys to join.

Incorrect Answers:

Replicated: Replicated tables eliminate the need to transfer data across compute nodes by replicating a full copy of the data of the specified table to each compute node. The best candidates for replicated tables are tables with sizes less than 2 GB compressed and small dimension tables.

Reference:

<https://rajanireshkaushikk.com/2020/09/09/how-to-choose-right-data-distribution-strategy-for-azure-synapse/>

## NEW QUESTION # 124

You have an Azure SQL Database instance named DatabaseA on a server named Server1.

You plan to add a new user named App1 to DatabaseA and grant App1 db\_datacenter permissions. App1 will use SQL Server Authentication.

You need to create App1. The solution must ensure that App1 can be given access to other databases by using the same credentials.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

**Answer:**

Explanation:

Explanation:

Step 1: On the master database, run CREATE LOGIN [App1] WITH PASSWORD = 'p@aaW0rd!' Logins are server wide login and password pairs, where the login has the same password across all databases.

Here is some sample Transact-SQL that creates a login:

```
CREATE LOGIN readonlylogin WITH password='1231!#ASDF!a';
```

You must be connected to the master database on SQL Azure with the administrative login (which you get from the SQL Azure portal) to execute the CREATE LOGIN command.

Step 2: On DatabaseA, run CREATE USER [App1] FROM LOGIN [App1]

Users are created per database and are associated with logins. You must be connected to the database in where you want to create the user. In most cases, this is not the master database. Here is some sample Transact-SQL that creates a user:

```
CREATE USER readonlyuser FROM LOGIN readonlylogin;
```

Step 3: On DatabaseA run ALTER ROLE db\_datareader ADD Member [App1]

Just creating the user does not give them permissions to the database. You have to grant them access. In the Transact-SQL example below the readonlyuser is given read only permissions to the database via the db\_datareader role.

```
EXEC sp_addrolemember 'db_datareader', 'readonlyuser';
```

Reference:

<https://azure.microsoft.com/en-us/blog/adding-users-to-your-sql-azure-database/>

### NEW QUESTION # 125

You are provisioning an Azure SQL database in the Azure portal as shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/serverless-tier-overview>

### NEW QUESTION # 126

You have an Azure SQL database.

You need to identify whether a delayed query execution is associated to a RESOURCE wait.

How should you complete the Transact -SQL statement? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation

### NEW QUESTION # 127

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