# **DP201 - Designing an Azure Data Platform Solution**

## Lab 5 – Designing for Scale and Resiliency

**Exercise 2**

**Task 1: Design for optimized storage and database performance**

Use the table below to document the storage and database optimizations for AdventureWorks. The choice should be justified.

|  |  |  |
| --- | --- | --- |
| **Service** | **Feature** | **Justification** |
| Cosmos DB | Increasing the number of Request Units per second + Portioning | Increasing the number of RUs/s allows for processing a largest number of requests in less time, and portioning makes parallel jobs possible, making queries faster |
| Azure Synapse Analytics | Increase the number of DWUs, using SSD disks | Higher availability, increasing the number of DWUs also increase the number of possible IOps, which would be specially needed during peak terms |
| Blob Storage | Using Azure Cache for Redis | Allows faster responses upon an increasing number of requests during peak terms |