# **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.

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| Service | Feature | Justification |
| Ordering System | CosmosDB | Globally available + |
| Data Warehouse | Gen Lake v2 + Azure SQL DB | Depends on data being structured or semi-structured. If structured -> Azure SQL DB, if semi -> Cosmos. GLv2 for data that is hot or going to be aggregated further w/ analysis services. |
| Chatbot | Gen Lake v2 storage acc | 3rd party utilities can intercept and store the chat logs for further consumption/archival. Depends on usage. |
| Post analysed social media data | Gen Lake v2 + Cosmos | Likely to be stored in lightweight format such as Json (semi structured or unstructured) |
| Website assets | Azure Blob Storage | Cheap storage and no need to perform aggregations on images |
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