# **DP 200 - Implementing a Data Platform Solution**

## Lab 1 - Azure for the Data Engineer

### Exercise 1: Identify the evolving world of data within AdventureWorks.

Use the table below to document the data requirements and data structure as identified from the AdventureWorks case study.

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| # | Data requirement | Data Structure |
| 1 | Data store should be available to hold images of products for website | Semi-Structured |
| 2 | Business reporting configured as a data warehouse, with a database named AdventureWorksDW to provide historical reporting & descriptive analytics. | Data Warehouse capabilities of Azure Synapse Analytics |
| 3 | Tool to extract, load, transform data into the data warehouse | Azure Data Factory for transform capabilities |
| 4 | Data for implementation for chat bots (in multiple languages) in which future bicycle owners can: find which bicycle owners is best for them, retrieve status on current orders/delivery times, find bicycle parts suitable for them. As well as help for Service Agents to identify fraudulent claims. |  |
|  | Social Media Analysis -> Measure the impact. Hashtag data (keys) | Unstructure |
|  | Connected bicycles -> IoT kind of data, used for telemetry | IoT |
|  |  |  |

SOLUTION

