



1

**Task One**  
Assessment of data quality and completeness in preparation for analysis  

1-2 hours

2

**Task Two**  
30-60 mins

3

**Task Three**  
1-2 hours

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**Finish Line**

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### Task 1: Data Quality Assessment

## Here is the background information on your task

Sprocket Central Pty Ltd , a medium size bikes & cycling accessories organisation, has approached Tony Smith (Partner) in KPMG’s Lighthouse & Innovation Team. Sprocket Central Pty Ltd is keen to learn more about KPMG’s expertise in its Analytics, Information & Modelling team.

Smith discusses KPMG’s expertise in this space (you can read more **here**). In particular, he speaks about how the team can effectively analyse the datasets to help Sprocket Central Pty Ltd grow its business.

Primarily, Sprocket Central Pty Ltd needs help with its customer and transactions data. The organisation has a large dataset relating to its customers, but their team is unsure how to effectively analyse it to help optimise its marketing strategy.

However, in order to support the analysis, you speak to the Associate Director for some ideas and she advised that *“the importance of optimising the quality of customer datasets cannot be underestimated. The better the quality of the dataset, the better chance you will be able to use it drive company growth.”*

The client provided KPMG with 3 datasets:

- Customer Demographic
- Customer Addresses
- Transactions data in the past 3 months

You decide to start the preliminary data exploration and identify ways to improve the quality of Sprocket Central Pty Ltd’s data.