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[Homepage](https://in.insidesherpa.com/virtual-internships/prototype/ZLJCsrpkHo9pZBJNY/Data%40ANZ%20Program)   >   [Module Overview Page](https://in.insidesherpa.com/virtual-internships/ZLJCsrpkHo9pZBJNY)  >   [Exploratory Data Analysis](https://in.insidesherpa.com/modules/ZLJCsrpkHo9pZBJNY/BiJPfqmGY2QwgN6gA)

Task 1

**Exploratory Data Analysis**

Segment the dataset and draw unique insights, including visualisation of the transaction volume and assessing the effect of any outliers.

[[](https://in.insidesherpa.com/modules/ZLJCsrpkHo9pZBJNY/BiJPfqmGY2QwgN6gA#step1)](https://in.insidesherpa.com/modules/ZLJCsrpkHo9pZBJNY/BiJPfqmGY2QwgN6gA" \l "step1)

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[Get background info and context](https://in.insidesherpa.com/modules/ZLJCsrpkHo9pZBJNY/BiJPfqmGY2QwgN6gA" \l "step2)

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[Unlock the model work](https://in.insidesherpa.com/modules/ZLJCsrpkHo9pZBJNY/BiJPfqmGY2QwgN6gA" \l "step6)

**1**

**Get your instructions from your supervisor**

Watch this video and hear about your task.

Optional: Employment Preferences

**What kind of employment opportunities are you looking for?**

* Pre-internship
* Internships / Vacation schemes
* Full time

🌏  Update working rights  →

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[Download CV/Linkedin Policy](https://insidesherpa-assets.s3-ap-southeast-2.amazonaws.com/files/InsideSherpa+Referencing+Policy.pdf)

This helps companies on InsideSherpa reach out to you for the right roles.

**2**

**Here is the background information on your task**

This task is based on a synthesised transaction dataset containing 3 months’ worth of transactions for 100 hypothetical customers. It contains purchases, recurring transactions, and salary transactions.

The dataset is designed to simulate realistic transaction behaviours that are observed in ANZ’s real transaction data, so many of the insights you can gather from the tasks below will be genuine.

The relevant dataset is linked below for you.

**3**

**Here is your task**

Load the transaction dataset below into an analysis tool of your choice (Excel, R, SAS, Tableau, or similar)

Start by doing some basic checks – are there any data issues? Does the data need to be cleaned?

Gather some interesting overall insights about the data. For example -- what is the average transaction amount? How many transactions do customers make each month, on average?

Segment the dataset by transaction date and time. Visualise transaction volume and spending over the course of an average day or week. Consider the effect of any outliers that may distort your analysis.

For a challenge – what insights can you draw from the location information provided in the dataset?

Put together 2-3 slides summarising your most interesting findings to ANZ management.

**4**

**Resources to help you with the task**

[[](https://insidesherpa.s3.amazonaws.com/vinternships/companyassets/AKkAyEwWc8wjPxx9n/Gz8nAM5drF9tcbBa4/ANZ%20synthesised%20transaction%20dataset.xlsx)](https://insidesherpa.s3.amazonaws.com/vinternships/companyassets/AKkAyEwWc8wjPxx9n/Gz8nAM5drF9tcbBa4/ANZ%20synthesised%20transaction%20dataset.xlsx" \t "_blank)

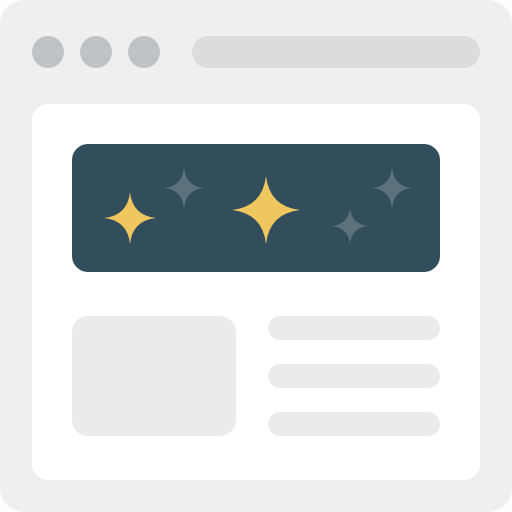
**[ANZ synthesised transaction dataset](https://insidesherpa.s3.amazonaws.com/vinternships/companyassets/AKkAyEwWc8wjPxx9n/Gz8nAM5drF9tcbBa4/ANZ%20synthesised%20transaction%20dataset.xlsx" \t "_blank)**

[Exploratory Data Analysis](https://insidesherpa.s3.amazonaws.com/vinternships/companyassets/AKkAyEwWc8wjPxx9n/Gz8nAM5drF9tcbBa4/ANZ%20synthesised%20transaction%20dataset.xlsx" \t "_blank)

[ANZ synthesised transaction dataset.xlsx](https://insidesherpa.s3.amazonaws.com/vinternships/companyassets/AKkAyEwWc8wjPxx9n/Gz8nAM5drF9tcbBa4/ANZ%20synthesised%20transaction%20dataset.xlsx" \t "_blank)

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[[](https://www.tableau.com/)](https://www.tableau.com/" \t "_blank)

**[Link to Tableau Website](https://www.tableau.com/" \t "_blank)**

[Exploratory Data Analysis](https://www.tableau.com/" \t "_blank)

[Tableau Website](https://www.tableau.com/" \t "_blank)

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**For those who would like to try this task using R:**

1. Go to <https://notebooks.azure.com/>, to create a free R notebook project. After users have uploaded the data, they can create an R project directly in the browser without requiring any installation of software. They can also export or share their work easily to submit it to us.
2. Download and install RStudio by following the instructions at <https://www.rstudio.com/>

**5**

**Submit your work**

You may only credit this task to your CV if you make a genuine attempt at the work. You may resubmit work, iterate upon and reattempt work as many times as you want.

**Practice or learning attempt:**

 toggle this switch to flag this was a practice attempt to ANZ

Top of Form

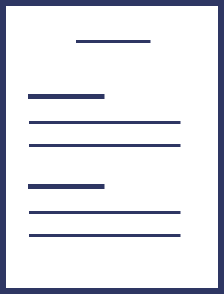
Drop files here or click to upload.(You can resubmit your work as many times as you wish)

Bottom of Form

**6**

**Unlock the model work**

Download an example of work done at ANZ in this topic. Submit an attempt at work first before this unlocks.



[Go to the Module Overview Page](https://in.insidesherpa.com/virtual-internships/ZLJCsrpkHo9pZBJNY)

[Next Task →](https://in.insidesherpa.com/modules/ZLJCsrpkHo9pZBJNY/BnwCTubtx8NW5W5Kr)

**What it’s like to work with us…**

Data Science is a contact sport at ANZ.  
  
We look for ways for you to connect with data colleagues internally and externally. We bring together people from across the bank to get value in the hands of customers and colleagues as easily as possible, autonomy, purpose and mastery wrapped together.  
  
Growing our people through development opportunities and work experiences is a critical part of how we evolve and strengthen your capabilities.  
  
Up for the challenge? We’d love to hear from you!

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