

COURSEWORK BRIEF:

Module Code:	MANG1041	Assessment:	Individual Coursework	Weighting:	20%
Module Title:	Business Analytics Programming I: SAS Base Language				
Module Leader:	Kasia Bijak				
Submission Due Date: @ 16:00	Friday 28th March 2025			Word Count:	N/A
Method of Submission:	Electronic via Blackboard Turnitin ONLY (Please ensure that your name does not appear on any part of your work)				

Any submitted after 16:00 on the deadline date will be subject to the standard University late penalties (see below), unless an extension has been granted.

Days Late:	Mark:
1	(final agreed mark) * 0.9
2	(final agreed mark) * 0.8
3	(final agreed mark) * 0.7
4	(final agreed mark) * 0.6
5	(final agreed mark) * 0.5
More than 5	0

This assessment relates to the following module learning outcomes:

<i>A. Knowledge and Understanding</i>	A1. Key computer programming concepts for managing and analysing 'big data'; A2. The SAS Base language and how it is used to manage, analyse and report data.
<i>B. Subject Specific Intellectual and Research Skills</i>	B1. Read structured and unstructured data stored in popular formats such as excel worksheets, text tables into SAS; B2. Store data in SAS libraries; B3. Manipulate, analyse, visualize and report data using SAS.
<i>C. Transferable and Generic Skills</i>	

Coursework Brief:

In this assignment, you will analyse data on quantities of fruit and veg purchased for UK households obtained from the website: <https://www.gov.uk/government/statistical-data-sets/family-food-datasets>. There is no need to download data from the website. Please use the file food.xlsx which is available on Blackboard. The data includes averages per person per week (in grams).

You will analyse the data using data steps and procedures you should be familiar with as well as the TABULATE procedure which may be new for you, and hence, you will need to refer to the SAS documentation. Please copy the syntax of your SAS program and paste it into a Word document that you will submit to Blackboard. Alternatively, you are welcome to use any other word processor, e.g. Pages, and save and then submit your document as a pdf file. Below there are more guidelines that you will need to follow. Please read them carefully.

Guidelines

- Write a SAS program that performs the tasks listed below.
- Comment your program liberally so that it is clear what the aim of your program is, what each data step/procedure does and which task it addresses.
- Only use the WORK library, and do not use any other SAS libraries.

Tasks (marks in brackets)

- 1) Import the data from food.xlsx to SAS (10)

Most popular fruit

- 2) Sort the data by quantity2015 (order: largest to smallest) (10)
- 3) Once the data is sorted, print the 2015 data for those foods which belong to 'Fresh fruit' (10)

Changes over 40 years: which veg gained the most popularity?

- 4) Create a new data set (veg) that only contains those foods which belong to 'Fresh and processed vegetables, excluding potatoes'. Include only the variables food, quantity1975 and quantity2015 (10)
- 5) In the new data set, create a new variable (change40) as quantity2015 divided by quantity1975 (10)
- 6) In the new data set, sort the data by change40 (order: largest to smallest) (10)
- 7) Once the data is sorted, print the first 5 observations from the new data set, including only the variables food and change40 (10)

Total quantities of fruit and veg purchased in different categories

- 8) Learn about the TABULATE procedure and analyse examples such as the Simple Tables on the SAS website: https://documentation.sas.com/doc/en/pgmsascdc/9.4_3.5/proc/n1ql5xnu0k3kdtn11gwa5hc7u435.htm. Using the TABULATE procedure and the food data set, produce a table that sums up the 2015 data for each category1 in each category2 (10)

Assessment criteria

Your work will be assessed according to the extent to which it demonstrates knowledge and understanding of SAS Base language, and how it is used to manage, analyse and report data, as well as an ability to read data stored in a popular format into SAS, store data in SAS libraries, manipulate, analyse, and report data using SAS, and use your analytic skills in problem solving. In particular, you can get:

- Up to **80 marks** for performing the tasks correctly
- Up to **20 marks** for comprehensive comments, and the structure and elegance of your program

Nature of Assessment: This is a SUMMATIVE ASSESSMENT. See 'Weighting' section above for the percentage that this assignment counts towards your final module mark.

Word Limit: +/-10% either side of the word count (see above) is deemed to be acceptable. Any text that exceeds an additional 10% will not attract any marks. The relevant word count *includes* items such as cover page, executive summary, title page, table of contents, tables, figures, in-text citations and section headings, if used. The relevant word count *excludes* your list of references and any appendices at the end of your coursework submission.

You should always include the word count (from Microsoft Word, not Turnitin), at the end of your coursework submission, before your list of references.

Title/Cover Page: You must include a title/ cover page that includes: your Student ID, Module Code, Assignment Title, Word Count. This assignment will be marked anonymously, please ensure that your name does not appear on any part of your assignment.

References: You should use the Harvard style to reference your assignment. The library provide guidance on how to reference in the Harvard style and this is available from: <http://library.soton.ac.uk/sash/referencing>

Submission Deadline: Please note that the submission deadline for Southampton Business School is **16.00 for ALL assessments**.

Turnitin Submission: The assignment MUST be submitted electronically via Turnitin, which is accessed via the individual module on Blackboard. Further guidance on submitting assignments is available on the [Blackboard support pages](#).

It is important that you allow enough time prior to the submission deadline to ensure your submission is processed on time as **all** late submissions are subject to a late penalty. We would recommend you allow 30 minutes to upload your work and check the submission has been processed and is correct. Please make sure you submit to the correct assignment link.

Email submission receipts are not currently supported with Turnitin Feedback Studio LTI integrations, however following a submission, students are presented with a banner within their assignment dashboard that provides a link to download a submission receipt. You can also access your assignment dashboard at any time to download a copy of the submission receipt using the receipt icon. It is vital that you make a note of your **Submission ID (Digital Receipt Number)**. This is a unique receipt number for your submission and is proof of successful submission. You may be required to provide this number at a later date. We recommend that you take a screenshot of this page or note the number down on a piece of paper.

The last submission prior to the deadline will be treated as the final submission and will be the copy that is assessed by the marker.

It is your responsibility to ensure that the version received by the deadline is the final version, resubmissions after the deadline will not be accepted in any circumstances.

Important: If you have any problems during the submission process you should contact ServiceLine immediately by email at ServiceLine@soton.ac.uk or by phone on +44 (0)23 8059 5656.

Late Penalties: Further information on penalties for work submitted after the deadline can be found [here](#).

Special Considerations: If you believe that illness or other circumstances have adversely affected your academic performance, information regarding the regulations governing Special Considerations can be accessed via the Governance and Policies landing pages: [Regulations Governing Special Considerations \(including Deadline Extension Requests\) for all Taught Programmes and Taught Assessed Components of Research Degrees 2023-24 | University of Southampton](#)

Extension Requests: Extension requests along with supporting evidence should be submitted to the Student Office as soon as possible before the submission date. Information regarding the regulations governing extension requests can be accessed via the Governance and Policies landing pages:

[Regulations Governing Special Considerations \(including Deadline Extension Requests\) for all Taught Programmes and Taught Assessed Components of Research Degrees 2023-24 | University of Southampton](#)

Academic Conduct & Responsibility: Please note that you can access Academic Conduct & Responsibility Guidance for Students via the Quality Handbook:

http://www.southampton.ac.uk/quality/assessment/academic_integrity.page? Please note any suspected cases of Academic Responsibility Conduct will be notified to the Academic Conduct Officer for investigation.

In 2023/24, the most common reasons for a breach of the regulations governing [Academic Responsibility Conduct](#) on your programme were:

Breach	How to avoid
Plagiarism – <i>using the work, words, or ideas of another without proper acknowledgement. This includes citing work that you haven't read.</i>	<ul style="list-style-type: none">- Always cite your sources.- Only cite what you have read and used.- "Direct quotes must be in quotation marks" with a page number if applicable.- If you read about the work of another in a source, say 'cited in' and cite where you read it (see here for more info).
Collusion – <i>Collaborating with others in an unauthorized way to produce academic work meant to be done independently.</i>	<ul style="list-style-type: none">- Unless permitted in a group assignment, don't work with/alongside others.- Don't share your work with others.- Ensure you are clear on where the line is. If in doubt, don't do it.
External authorship – <i>Obtaining or attempting to obtain unauthorized input from another person or service for academic work, e.g GenAI</i>	<ul style="list-style-type: none">- Ensure you are clear on if you are permitted to use GenAI.- Ensure your work is always your own.- Never send your work to others or upload it to a website.- Keep records of your work including notes, drafts, and reading.

Penalties for the above include mark reduction, resubmitting for a capped mark, or a '0' for the module.

If you are in any doubt, please ask.

Further learning and advice can be found in the [Academic Conduct & Responsibility Toolkit](#), and the Library [Website](#).

Feedback: Southampton Business School is committed to providing feedback within 4 weeks (University working days). Once the marks are released and you have received your feedback, you can meet with your Module Leader / Module Lecturer / Personal Academic Tutor to discuss the feedback within 4 weeks from the release of marks date. Any additional arrangements for feedback are listed in the Module Profile.

Student Support: Study skills and language support for Southampton Business School students is available at: <http://www.sbsaob.soton.ac.uk/study-skills-and-language-support/>.