

Individual Assignment: Power BI take home Assignment

You are hired as a business analyst working for United Health Stroke Foundation (UHSF). You are expected to implement visualizations, generate insights from data and make recommendations based on the insights generated.

Assessment

This assignment is worth 25% of your assessment for the subject.

Deliverable: Submission/Report Requirements

You are expected to submit the filled report that answers all questions and upload the additionally requested appendices.

Please note: Carefully follow the submission guidelines described below (under “Submission”)

Material

To complete the assignment, you are provided with the following material:

- Power BI Take home Assignment- Assignment Requirements Sheet (including case study description)
- Power BI Assignment report template
- Data (healthcare-dataset-stroke-data.csv)
- Data Dictionary

Deliverable: Submission/Report Appendix

1. **Report File (Power BI Assignment report template):** The report draft has predetermined answer fields (including word limits). Make sure to provide the deliverables (answer the questions) in the required form, do not exceed the individual word limits. You need to replace the current screenshots with the requested screenshots documenting your work. **Do not make any other changes to the template**
2. **Appendix 2 – PBI visualisations file:** You also need to zip your PBI (*.pbix) files and submit along with your assignment. **Submissions without the PBI file attachments will not be marked.** Late submissions of these files will incur penalties as discussed in subject eCP.

Assessment Criteria of Deliverables (find rubric specific descriptions in separate file)

Aspect of review (% of grade of the assignment)	Outstanding	Very Good	Good	Meets Expectations	Below Expectations
Report					
Executive Summary (10%)					
Visual descriptive analysis via PBI (60%)					
Discussions and Conclusions (20%)					
Writing and Referencing (10%)					
Appendix					
PBI files	(Mandatory submission, non-graded item)				

Submission

This assignment is due at **16:00 PM on 10 OCT 2022.**

For late submissions, please refer to guidelines outlined on eCP:

http://www.courses.uq.edu.au/student_section_loader.php?section=5&profileId=93817

You are required to submit an electronic version of your work through Blackboard (see the Assessment Link on Blackboard and look for the link labelled **Assignment Submission**. You will have two opportunities to submit your documents. So, in case you make a mistake on your first submission or wish to revise your assignment, you can **re-submit it once**. Please ensure that you put your report through **Turnitin BEFORE submitting** it to Blackboard, to make sure that your assignment is plagiarism free. By submitting your work in this manner, plagiarism is checked for you, and you will be able to see if you have any issues with this in your work. Use **Turnitin as many times as you need** to fix any similarity issues before the due date (obviously, given that you are working in a pre-specified report, we are only concerned about the similarity of your answers). Also, by submitting the Assignment via Blackboard you attest that the Assignment is your own work.

Please compress PBI file, should include all visuals, in a zip file. Submit the Zip file along with your report on both **Blackboard assignment and Turnitin**.

Academic Honesty

Academic misconduct occurs when students portray someone else's work as their own. There are many ways in which Academic misconduct can occur. Some of these are:

- **Sham Paraphrasing:** Material copied verbatim from text and source acknowledged in-line but represented as paraphrased.
- **Illicit Paraphrasing:** Verbatim paraphrased from text without in-line acknowledgement of source.
- **Other Plagiarism:** Material copied from another student's assignment with the knowledge of the other student.
- **Verbatim Copying:** Material copied verbatim from text without in-line acknowledgement of the source.
- **Recycling:** Same assignment submitted more than once for different subjects.
- **Ghost Writing:** Assignment written by third party and represented as own work.
- **Purloining:** Assignment copied from another student's assignment or other person's papers without that person's knowledge.

The university is committed to graduating students with "**a profound respect for truth, and for the ethics of scholarship [...] we want our graduates to be capable of independent thought, to be able to do their own work, and to know how to acknowledge the work of others**" (Prof. Peter McPhee). As such, the university takes a dim view of students to are not able to correctly acknowledge the work of others, or who try to pass this work off as their own. All students should be aware of the following web site: <https://my.uq.edu.au/information-and-services/manage-my-program/student-integrity-and-conduct/academic-integrity-and-student-conduct> which provides practical advice to students about how not to be involved in academic misconduct.

Background Description

Please see below: **Visual analysis of Stroke Data; Case UHSF**

Visual Analysis of Stroke Data; Case UHSF

United Health Stroke Foundation (UHSF) is a global organisation that works with various government and non-government health organizations across the globe for minimizing stroke-related incidents, saving lives, designing educational and training material and enhancing the recovery of stroke victims. United Health Stroke Foundation (UHSF) has Headquartered in Geneva, Switzerland, and has regional offices in London, New York, Singapore, and Sydney. The Foundation prides itself on its mission to identify and remove barriers to health care access and quality, advance cardiovascular health for all, and support survivors of stroke and their families, healthcare professionals and researchers to build community awareness and foster new thinking.

UHSF relies on data it collects from different countries to understand the patterns, drivers, and factors related to stroke incidents. As the research and various scientific publications have frequently cited personal, health, and lifestyle-related factors in understanding stroke incidents, UHSF undertook a study over a period of 10 years from 2010 to 2020 to identify the various factors that might relate to the occurrence of stroke. Approximately 20,000 people from different regions and geographies, at various points in time, were invited to participate in this study and personal information, health indicators, lifestyle choices, etc. were collected from the individuals. The stroke data spans sixteen variables and is stored as a CSV file "healthcare-dataset-stroke-data.csv". The variables are summarized below (check the data dictionary for a detailed description of the data).

- **Personal** - Gender, Age, Occupation, Marital Status, Work Type
- **Health Indicators** - Heart Disease, Average Glucose Level, Body Mass Index, Cholesterol level
- **Lifestyle Choices** - Smoking Status, Alcohol Consumption, Residence Type
- **Others** - Participant ID, Continent, Year of Participation, Stroke (Yes/No)

The UHSF executive would like to understand the **relationship** between various variables with stroke, **compare** the variables, and understand the **composition** and the underlying **distribution of the stroke-related factors**. At a recent conference, executives of UHSF learned the power of data visualization and how data visualization can be used to communicate interesting insights from the data. The executives have been recommended to use Power BI to convert the data to analytic-friendly forms, create insightful dashboards and reports, perform visual analytics, and present it in a way that helps them to formulate communication messages and design intervention strategies.

After graduating from UQ, you landed your first job as a Business analyst in the Sydney office. You are handed the task of preparing a PowerBI dashboard report to summarize the stroke data UHSF has collected. In order to progress to a permanent position, this is a vital assignment, and you need to demonstrate your ability to apply your data visualization knowledge and skills to produce visual reports that highlight key insights from the data and communicate your results in an academic style report. In particular, UHSF executives are interested in **discovering**

factors associated with stroke incidents. Also, you are instructed to identify the most important factors associated with increased risk of stroke and the relationship between these variables. You are required to complete the report template for the executives.

Best of luck with your assignment!

Assignment Project Exam Help

<https://powcoder.com>

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