Microsoft

POWER BI

Assessment Instructions

Assignment Instructions

1. Build a dashboard displaying the information learnt throughout the course
2. Dashboard should include techniques for the following:
    a. Importing Data
    b. Data Transformation and Cleaning
    c. Data Modelling
    d. Data Visualisation
    e. Dashboard Design Principles
3. Refer to the marking rubrics for the detailed scoring

Pick a Data Set

Set 1:
COVID-19 Dataset: Number of Confirmed, Death and Recovered cases every day across the globe
https://www.kaggle.com/datasets/imdevskp/corona-virus-report

Set 2:
Employee Dataset: Information of employees and description of nominal values
https://www.kaggle.com/datasets/rohitsahoo/employee

Set 3:
US Film Industry Top Movies & Directors: 2006-2017 Data on Genres, Camera Formats, and Film Types
https://www.kaggle.com/datasets/thedevastator/us-film-industry-top-movies-directors

Set 4:
Netflix Top Rated Movies and TV Shows: IMDb Scores and Votes Based on Production Data
https://www.kaggle.com/datasets/thedevastator/netflix-top-rated-movies-and-tv-shows-2020-2022

Set 5:
Self-source: Should minimally have 2 different data sources

Assessment Notes

Select Dataset	Pick from the files given or self-source
Follow Guidelines	Look through the rubrics
Consistency	Work on it progressively
Deadline	**1 March 2023 (2359)**
Submission	Zip all supporting files and PowerBI file into a folder and **email it to** xychan002@suss.edu.sg before the deadline

Important Notes for issuance of Certificate of Completion:

(1) For Zoom video lessons, students are required to turn on their cameras throughout the lesson. Please ensure that your internet connection works well as to avoid missing out information. For F2F lessons, students are required to be present throughout the lessons. Students who did not observe this requirement will not be issued the Certificate of Completion.

(2) Certificate of Completion will only be issued to participants who have attended all lessons, turned on their video camera throughout the lessons, submitted and obtain a Pass grade for the end-of-workshop assignment and uploaded it to Portfolium within the deadline given by the Teaching Assistants. Exemption may be granted on a case-by-case basis with email to Teaching Assistants xychan002@suss.edu.sg and copied to careerdev@suss.edu.sg.

(3) Students will not be awarded with the Certificate will be notified 2 weeks after end of workshop and may clarify with the Teaching Assistants within 3 days of notification. A reply to the Teaching Assistants is required to acknowledge the notification, after which no exception will be made to issue the Certificate.

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Assessment Rubrics

Power BI Workshop - Assessment Marking Rubrics

Components	Importing Data (5 marks)	Data Transformation and Cleaning (15 marks)	Data Modelling (20 marks)	Data Visualisation (30 marks)	Dashboard Design Principles (30 marks)
Key Points of Assessment	• Connect sources • Import data from different sources and multiple sheets (Excel, CSV, Text)	• Remove duplicated and unrequired data • Fix errors, missing values, empty fields • Proper formatting of data (Number, Text, Date, Currency)	• Model relationships across datasets • Include the right cardinality type across relationships • Charts created utilises data that are cross-filtered from other tables • Created measures and calculated columns	• Utilises different visual types and advanced visuals • Charts are insightful in modelling data • Charts show multiple or comparative information • Charts are complementary in displaying information	• Effective information presentation • Visual consistency • Effective interactions and use of charts in supporting the dashboard theme • Pages are linked using navigation bar and buttons
Excellent	Imported two or more datasets using two different sources	Transformed and cleaned the dataset well, with no inconsistencies.	Modelled relationships with right cardinality type. Charts created uses data from multiple tables. Multiple measures and calculated columns are created and used in charting.	Utilises different visual types and advanced visuals. Multiple charts are created and insightful in modelling data. Charts are dynamic and complementary to other visuals in displaying information	Dashboard is visually consistent and provides good user interface with navigation across pages. Effective interactions and use of charts in supporting the dashboard theme.
Very Good	Imported two or more datasets using one source	Transformed and cleaned the dataset with a few inconsistencies	Modelled relationships with most having the right cardinality type. Charts created uses data from multiple tables. Multiple measures and calculated columns are created with some used in charting.	Utilises different visual types. Multiple charts are created and insightful in modelling data. Charts are mostly dynamic and complementary to other visuals in displaying information	Dashboard is visually consistent and provides decent user interface with some navigation across pages. Charts are generally in line with the dashboard theme.
Average	Imported one dataset	Transformed and cleaned only the data used in the charts	Modelled relationships with wrong cardinality types. Charts did not utilise cross-filtered data. Measures or calculated columns are not used in charting.	Utilises different visual types. Multiple charts are created. Some charts are insightful in showing data.	Dashboard is not consistent and provides some navigation across pages. Charts are not consistent with the page / dashboard theme.
Not Meeting Expectations	Did not import any dataset	Did not perform any data transformation and cleaning steps	Did not have any modelling relationships or modelled relationships wrongly. Measures and calculated columns are not created or does not work.	Utilises similar visual types. Multiple charts are created. Charts are confusing and do not carry much insights.	Dashboard is not visually pleasing nor consistent. No navigation across pages are provided. Charts are not consistent with the page / dashboard theme.

Power BI Workshop - Assessment Marking Scoring System

Scoring System	Importing Data (5 marks)	Data Transformation and Cleaning (15 marks)	Data Modelling (20 marks)	Data Visualisation (30 marks)	Dashboard Design Principles (30 marks)	Student Score
Excellent	5	15	20	30	30	
Very Good	3-4	10-14	13-19	20-29	20-29	
Average	2	5-9	6-12	10-19	10-19	
Not Meeting Expectations	1	<5	<6	<10	<10	
Total						

Passing Mark: 40/100