ame	EGB103 Assignment 2			
escription				
ubric Detail				
	Levels of Achievement			
Criteria	Poor (grade 0-3)	Fair (grade 4)	Good (grade 5-6)	Excellent (grade 7)
Data cleaned, read, parsed and indexed.	0 to 0 points	2 to 2 points	3 to 3 points	4 to 4 points
	Did not read data into a Pandas Data Frame.	Data read successfully into a Pandas Data Frame	Failed to clean, parse dates or select appropriate index.	Data is cleaned, read into a Pandas data frame, with Dates parsed and an appropriate index column selected.
Column computed for Kilowatts for Refrigeration (kWR)	0 to 0 points	1 to 1 points	2 to 2 points	3 to 3 points
	No attempt to compute kWR.	kWR is computed but not added as a column.	Column added but incorrect formula	kWR column is added successfully using the correct formula.
Column computed for Coefficient of Performance (COP)	0 to 0 points	1 to 1 points	2 to 2 points	3 to 3 points
	No attempt to compute COP.	COP is computed but not added as a column.	Column added but incorrect formula	COP column is added successfully using the correct formula.
Group by used to plot kWE, kWR, COP and %operating vs	0 to 2 points	3 to 3 points	4 to 5 points	6 to 6 points
	Some relevant data	Group by used correctly	Group by	Group by used correctly to plot all 12 combinations

Group by used to plot kWE, kWR, COP and %operating vs hour of day, day of week and month of year

Some relevant data plotted (not necessarily using group by).

Group by used correctly to show at least 2 plots with different x-axis. e.g. COP vs hour of day and COP vs month of year.

Group by used correctly to show 3 to 11 different plot combinations.

Group by used correctly to plot all 12 combinations of kWE, kWR, COP and %operating vs hour of day, day of week and month of year

provide little if any understanding of

their purpose.

Criteria	Poor (grade 0-3)	Fair (grade 4)	Good (grade 5-6)	Excellent (grade 7)
Filtering used to restrict attention to when chiller is operating and just	<b>0 to 0 points</b> No use of Pandas row filtering.	1 to 1 points  Some Pandas filtering used to restrict rows	0 to 0 points	2 to 2 points  Filtering used correctly to both restrict attention to when chiller is actually operating and to just the date
birthday		based on conditions.		of the student's birthday (consistent with QUT student data).
Binning used to plot Coefficient of Performance (COP) vs Kilowatts of Refrigeration (kWR)	0 to 0 points	1 to 1 points	0 to 0 points	2 to 2 points
	No attempt to plot COP vs kWR	Some attempt to plot COP vs kWR but not using binning or group by correctly.		Binning of kWR is used together with group by to correctly plot COP vs kWR.
Markdown to sumamarize conclusions for each plot	0 to 0 points	1 to 1 points	0 to 0 points	2 to 2 points
	No commentary provided for any plots.	Some markdown provided with most plots, but missing or incorrect conclusions/observatons.		Each plot is accompanied by markdown that provides a brief, but well reasoned commentary on the data that highlights interesting aspects of the results.
Plot titling, labelling and figure sizing	0 to 0 points	1 to 1 points	0 to 0 points	2 to 2 points
	No titles or axis labels on any plots/figures.	Some problems with titles and labels		All figures have a title, both axis are labelled with a name (and units where applicable) and data labels are easily understandable, e.g. day of week is shown as 'Tuesday', not day 3 of 7 and Figures are sized large enough to make them easy to read.
Well chosen identifier names	0 to 0 points	1 to 1 points	0 to 0 points	2 to 2 points
	Most function and variable names use short names that	Most function and variables are reasonably named, providing some		All variable and function names are well chosen meaningful names that greatly aids the readability of the code.

understanding of their

purpose.

	Levels of Achievement			
Criteria	Poor (grade 0-3)	Fair (grade 4)	Good (grade 5-6)	Excellent (grade 7)
Clear simple code	0 to 0 points	1 to 1 points	0 to 0 points	2 to 2 points
	Code unnecessarily complex and very hard to understand.	Some parts are unnecessarily complex and hard to understand.		All Python code is written in a clear and simple fashion that is easy to read and understand.
Don't repeat yourself	<b>0 to 0 points</b> No use of functions to avoid replication.	1 to 1 points  Some attempt to use functions to avoid replication, but still considerable near identical code repeated in many places	0 to 0 points	2 to 2 points  Python functions used to avoid repeating the same code pattern.

View Associated Items

Print

Close Window