## **BUS5PA Assignment 1 – Answer guidelines (Rubric)**

## **Expectation Matrix for answer preparation**

Part A	D	С	В	A
Q1	Evidence of a basic exploration	(without explicit	factors affecting house	Detailed background study on the factors affecting the sales price of houses in the USA
Q2	Evidence of a basic exploration		data sources, data formats and challenges	Detailed analysis of available data sources, methods of obtaining and discussion on challenges in data collection
Q3	exploration	variables which are useful for a predictive model	which are useful for a predictive model (without justifications)	Complete list of variables that are useful for a predictive model with proper justifications on their importance/impact on the sales price.

Part B	D	С	В	A
Q1	,	D requirements + Correctly identifying the nominal and ordinal variables	Correct explanation for	B requirements + Demonstrating data transformation
Q2	· ·	<u>D requirements +</u> Summary for categorical variables	•	B requirements + Correct justifications
Q3	Evidence of histograms and summary statistics	D requirements + Correct answer to 3.a	C requirements + Correct answer to 3.b	B requirements + Correct answer to 3.c
Q4		D requirements + Evidence of using the three techniques	C requirements + Proper presentation of results based on the three techniques	B requirements + Comparative discussion related to the original value
Q5		D requirements + Evidence of variable distribution against the target results	Properly carried out	B requirements.+ With proper justifications and explanations based on the case study.

Part C	D	С	В	Α
Q1	model	Correct implementation	! ·	B requirements + Correct answer to 2.c
Q2	building a decision tree	D requirements + Correct implementation of three different decision tree models	Identification of the	R requirements + Explanation for the outputs
Q3	correct validation		valid justification	B requirements + A detailed description aligned with the business case

Report format – A formal report is NOT expected for this assessment. As students of Masters level, you are expected to decide a suitable format for an informal report (a report for discussion within the analytics group). Please speak to lecturer if you are unsure about the format. A word or pdf file with the heading BUS5PA Assignment 1 Submission X (1,2,3), R script (where applicable) and student details should be submitted. Answers to questions in each part must be provided in the document. There is no strict word or page length, but students must keep in mind that a report that is too long can 'hide' the important points from the reader.

Submission – The project file and the report must be submitted on LMS by the due date. A submission link is available in LMS and announced in the unit web site. Instructions on how to submit the project file is available in the assignment folder.