



Unit 1 Applied Computing – 2024

Outcome 1 Data analysis – Template for developing an assessment task – Plan	
Outcome 1	Assessment task development – Planning the case study
On completion of this unit the student should be able to interpret teacher-provided solution requirements and collect and manipulate data, analyse patterns and relationships, and develop data visualisations to present fi	
 Key knowledge functional and non-functional requirements of solutions, constraints and scope Key skills interpret solution requirements, conscope 	Content to be included in the assessment task should introduce students to a scenario. The scenario should indicate the
 design tools for representing the functionality and appearance of databases, spreadsheets and data visualisations, such as annotated diagrams and mock-ups interpret designs using appropriate represent the functionality and appearance databases, spreadsheets and databases, spreadsheets and databases, spreadsheets and databases. 	arance of appearance of spreadsheet, database and data visualisations solutions. Students are not to complete designs themselves.
 types and purposes of qualitative and quantitative data characteristics of data and information sources, methods and techniques for acquiring and referencing primary and secondary data and information factors affecting the quality of data and information, such as accuracy, bias, integrity, relevance and reliability procedures for the legal and ethical collection and use of data and information, such as using consent forms techniques for protecting data and information from misuse, such as de-identifying personal data and the use of physical and software security controls Australian Privacy Principles relating to the acquisition, management and communication of data and information including non-identification of individuals (Principle 2), information only being held for its primary purpose (Principle 6) and the security measures used to protect personal information (Principle 11) ethical issues arising from the acquisition, storage and use of data and information 	Stadente are to acquire and reference data and information from a range of primary and december 20gar
 interpretation of information for communication and decision making analyse the selected data, and disc relationships and patterns identified 	Students are to analyse the data they have selected and discuss the relationships and patterns they have identified within the data. This analysis and discussion could be completed as a written report.
 types and purposes of data visualisations suitable for educating, entertaining, informing and persuading audiences characteristics of data types and data structures relevant to selected software tools structural characteristics of spreadsheets and databases, such as cells, fields, records and tables formats and conventions suitable for databases, spreadsheets and data visualisations software functions and techniques for efficiently and effectively manipulating, validating and testing data to develop databases, spreadsheets and data visualisations 	efficient and effective manipulating of data. A testing table is to be developed that involves the testing of all validation and processing such as calculations, etc. The testing table should include columns for expected and actual output and show evidence of tests that work and don't work