

## Unit 7

# Database Design (Feedback)

Thank you for your mid-module assignment submission which I have enjoyed reading.

For this assignment you needed to use the scenario provided to design and develop a class diagram, an activity diagram for the process of a customer completing an order and a state diagram highlighting the states of an order (and their transitions) for your proposed system.

You needed to draw out the objects, attributes, operations and relationships of the system in a rationale for your analysis (500 words). Please see below some general feedback which I hope you find useful.

### Knowledge and understanding of the topic/ issues under consideration - Excellent

Overall, you have demonstrated in depth understanding of the key elements required in the various diagrams. Your knowledge is evident in your rationale, which provides an excellent breakdown of the development of the diagrams. At times, you could have provided further justification, for example – in the state activity diagram processing state could have been decomposed to include both awaiting delivery choice and awaiting payment choice. You have shown solid insight in to the topics covered in the module so far including the various relationships in your design.

### Application of knowledge and understanding - Excellent

You have clearly demonstrated your knowledge and understanding in the application of the various diagrams, using some suitable techniques to address the learning outcomes assessed by this assignment. There is evidence of a high level of perception and documentation in the class diagram detailing classes with attributes and methods and incorporating inheritance, composition, multiplicity and aggregation. All aspects have been applied to advanced level and you have identified many classes, to fully address the design.

The activity diagram shows advanced demonstration and covers real life examples, however additional consideration could have been given to, for example, 'make payment' could have parallel behaviour before generating receipt, also having a merge activity could benefit multiple input flows to the activities.

The state diagram is clearly detailed and its to the point, however further development for the proposed system could include processing state covering both awaiting delivery choice and awaiting payment choice.

### Criticality - Excellent

There is an excellent demonstration of critical analysis in the presentation of your ideas, with regards to linking theory and practice in each of the diagrams. Every element of your diagrams was broken down and justified to ensure that your decisions were well documented and most suitable for the given scenario.

### Structure and Presentation - Excellent

Overall, this is excellent structure and presentation that has fully met the requirements of the assignment. Diagrams are suitably labelled and presented. You have used sub-headings to provide a more organised layout. Further research was not utilised.