**Tasks**

**1. Describe the rules for creating DFDs.**

Rules for creating DFDs:

1. Context diagram should be drawn in such a way that it fits within a page.
2. Information system name should be use as process name.
3. In each symbols, unique names should be used.
4. Cross lines should be avoided. This can be done by restricting the symbols in DFD.
5. Every process should have reference number and unique name.
6. Feedback and user input should be obtained as possible.

**2. What are the data flow and process combinations that must be avoided when creating a DFD?**

The below are the data flow and process combinations that must be avoided while creating DFD:

* External entity should not be linked with external entity.
* External entity cannot be connected with data store.
* Data store cannot be connected with another data store.

**3. Explain what a diagram 0 is and how it is used.**

**Diagram 0 and its used:**

* Diagram 0 gives the clear picture of the system i.e., data flows, data stores and processes.
* In diagram 0, data stores are shown.
* It is the depth representation of the system.
* It represents systems such as production control, inventory and scheduling.

**4. Ask Michelle and Aidan to review the order system context diagram on**page 155**, and compare it with the order system diagram 0 DFD on**page 158**. Then ask them to answer the following questions:**

**(a) How many external entities are shown in each diagram?**

Both context diagram and diagram 0 DFD contains 5 external entities.

**(b) In each diagram, how many data flows connect to the external entities?**

Both context diagram and diagram 0 DFD contains 9 data flows that are connected to external entities.

**(c) How many processes are identified in the diagram 0 DFD?**

Three processes are identified in diagram 0 DFD.

**(d) Could the data store have been shown in the context diagram? Why or why not?**

Yes, data store has to be shown as the data need to be stored so that it can be used by the processes in the system.