Unit 6: Homework

1. What are user defined functions and stored procedures? When are they typically used?
   Stored Procedures are pre-compiled objects which are compiled for the first time and its compiled format is saved, which executes (compiled code) whenever it is called.

   A function is compiled and executed every time whenever it is called and must also return a value.

2. Building on our Marketing project ,
   Calculate the Average Number(Count) of Orders per season (Seasons as defined in the SQLProject_When_ToOffer file)
   select
   if (date_format(OrderDate, "%b") in ('Nov','Dec'),'Holidays', if(date_format(OrderDate, "%b") in ('Jun','Jul','Aug','Sep'),'Summer','Other')   ) as Season ,
   round(avg(oh.OrderNumber)) as AvgNumofOrders
   ** from**
   OrderHeader as oh ,
   OrderLine as ol
   where
   oh.OrderNumber=ol.OrderHeader_OrderNumber
   group by
   Season
   order by
   AvgNumofOrders;

	Season	AvgNumofOrders
▶	Other	4981
	Holidays	5444
	Summer	5538

3. Is our Ecommerce DB design 1NF , 2NF and 3NF compliant ?
   If yes , Why ? If No, why not?
   3nF since There are no transitive dependencies (That is every non primary key is dependent directly on the primary key.