User Scenarios

1. Customer searches for a specific product brand name
   1. The query needs to be as cheap as possible -> use of Index (brand name), use stored procedure which takes string parameter specifying the brand name which returns all products of that brand name
2. Customer adds a product to a order basket
   1. Insert the product into the order basket table
   2. Updates the total sum of the order basket (in the application memory)
3. Event that applies discount on shopping holiday events
   1. On a specific date the product price rows should be affected by a specific discount percentage
   2. After the specific date, the product price rows should change to their previous, non-discount price
4. Customer makes an order (from adding the products to the shopping basket, to completing the purchase)
   1. Use a view that is to be used specifically for order related data (as opposed to querying the whole database)
   2. Order basket should be reset -> this can be part of a stored procedure
   3. Product quantity should be updated in the database according to the order -> this can be part of a stored procedure
   4. Add the purchase details to audit table -> this can be done using Trigger
5. A product becomes out of stock
   1. Notify the shop owners, to make decision about the future state -> this can be done using Trigger that will push the product to a Product stock Notification table (TABLE TO BE IMPLEMENTED)
6. Customer removes a product from his order basket
   1. Delete the product from the order basket
7. Customer looks through the product catalogue
   1. A read operation for the products, based on the user search criteria
8. Customer registers as a customer
   1. A write operation to the customer table with the user contact detail
9. Customer logins on his customer account
   1. A stored procedure that verifies the login credentials -> search should by indexed by email (or an username)
   2. Trigger a trigger for login tries
10. Admin adds product to the product catalogue
    1. A stored procedure that verifies if the product can be added (and adds it if possible)
11. Admin deletes product from the product catalogue
    1. A stored procedure that deletes the existing product (if possible)
    2. ON Delete Cascading should be done (for the product), to make changes in related tables
12. Admin updates product of the product catalogue
    1. A stored procedure that edits the product
    2. ON Update Cascading should be done (for the product), to make changes in related tables