**Homework 6**

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**Problem 1:** What is the difference between Procedure and Function?

A Procedure and function do the same actions but a function has the ability to return values to the requested source

**Problem 2**: Suppose we have two tables:

orders(order\_id int, product\_id int, quantity int, shipping varchar(255), order\_date Date)

products(product\_id int, price double, description varchar(255))

Create a **function** “**getPriority**” with order\_id as input. Our **getPriority** function will get the priority of the order based on the total cost of the order as follows

|  |  |
| --- | --- |
| Order Total Cost | Priority |
| >1000 | High |
| 500 - 1000 | Medium |
| <500 | Low |

The order total cost can be calculated as “order total cost = quantity \* product price”.

**Problem 3**: Suppose we have two tables:

orders(order\_id int, product\_id int, quantity, **total\_cost double**, shipping varchar(255), order\_date Date)

products(product\_id int, price double, description varchar(255), **on\_sale int**)

In the products table, if the product is on sale, then the value for the “**on\_sale**” attribute is 1, otherwise the value is 0. To facilitate the order processing, we now add a new attribute “**total\_cost**” into our orders table. The value for the total\_cost is calculated as

total\_cost = quantity \* product price \* 0.8, if on\_sale =1

total\_cost = quantity \* product price if on\_sale =0

Suppose we have 8 orders in our order tables now as

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| order\_id | producit\_id | quantity | total\_cost | shipping | order\_date |
| 1 | 2 | 10 |  | test | 3-2-2016 |
| 2 | 3 | 2 |  | test | 3-1-2016 |
| 3 | 1 | 13 |  | test | 2-1-2016 |
| 4 | 3 | 3 |  | test | 1-21-2016 |
| 5 | 2 | 1 |  | test | 1-12-2015 |
| 6 | 1 | 4 |  | test | 1-11-2016 |
| 7 | 3 | 5 |  | test | 1-10-2016 |
| 8 | 4 | 8 |  | test | 1-10-2016 |

Create a **procedure** updateTotalCost to update the “total\_cost” attribute for all 8 orders in the orders table. You **must use a loop design** in your procedure.