Software Developer Quiz

Technical Development Department

Software Developer

Candidate   :

Date   :

Score   :

Checked By   :

Question 1: Visualize Solution and PHP Coding

Your company would like to develop a reward system. The requirement is as below:
1. Customers will be rewarded with Points when Sales Order in "Complete" status.
2. Every USD$1 sales amount will be rewarded with 1 point, if the sales amount is not USD, convert to equivalent amount in USD for reward amount calculation.
3. Reward amount will be credited into the customer account with expiry date, which is 1 year later.
4. Points can be used for new order payment, every 1-point equivalent to USD$0.01.

Please provide the following:
1. Flowchart or UML diagram on the reward system
2. Design MySQL database schema for this reward system
3. PHP functions to credit user reward points after order completion

Question 2: MySQL Query

Based on the given tables, write a SINGLE query to retrieve the total order and sales amount of all the orders. Your output should display Number_Of_Order, Total_Sales_Amount

Orders Table

Order_ID	Order_Date	Sales_Type
1001	2007-05-01 12:10:10	Normal
1002	2007-05-07 05:28:55	Normal
1003	2007-05-19 17:17:00	Promotion
1004	2007-05-22 22:47:16	Promotion
1005	2007-05-27 08:15:07	Promotion
1006	2007-06-01 06:35:59	Normal

Orders_Products Table

Order_Product_ID	Order_ID	Item_Name	Normal_Price	Promotion_Price
2000	1001	Radio	800.00	712.99
2001	1002	Portable Audio	16.00	15.00
2002	1002	THE SIMS	9.99	8.79
2003	1003	Radio	800.00	712.99
2004	1004	Scanner	124.00	120.00
2005	1005	Portable Audio	16.00	15.00
2006	1005	Radio	800.00	712.99
2007	1006	Camcorders	359.00	303.00
2008	1006	Radio	800.00	712.99

NOTE: Refer Normal_Price if Sales_Type is 'Normal'
Refer Promotion_Price if Sales_Type is 'Promotion'