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 is in "Complete" status.
2. Every USD $1 sales amount will be rewarded with 1 point, if the sales amount is not USD, convert to the equivalent amount in USD for reward amount calculation.
3. The reward amount will be credited into the customer account with the 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

   Please note, point no. 4 should be covered at the database level. The schema should answer us how you are planning for use of the point in sales.

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'

Question 3 : Calculation

Order total MYR5.00 has included 6% GST, what is the actual amount of GST in MYR for this Order?

NOTE:

Please share all the codes on any repositories (gitlab, github, bitbucket) and do a proper document of the solutions and guide how you have managed codes and functions over the repository. The docs can be on a txt file or readme.md (preferred). You are free to provide the solutions on which you feel comfortable ie. core php or frameworks.

We want to thank you in advance for your precious time. We expect it would take you a couple of hours to complete this solution.

After this test, you will be requested for a 30-minute technical interview and a final interview with our project managers and sr. developers.

For any clarification and support feel free to contact us at 9801400589 or madan2056@gmail.com.