DATABASE QUIZ

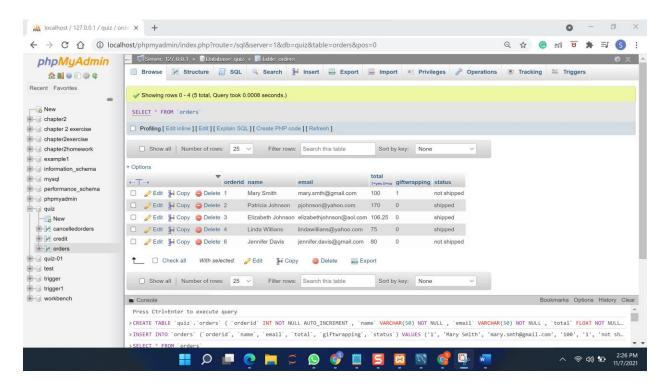


FIG 1: ORDERS TABLE

Question 1: The total column in the order table represents the total cost of an order in dollars. The company would like to make 15% discount for any order with a total value greater than \$100 between 11/9/2021 and 11/14/2021. Attach a before insert trigger to the order table based on the above business logic. Then, insert the following orders into the order table. Double check your answers to make sure that the trigger inserts discounted prices for the orders when conditions are met. (20 points)

OrderID	Name	Email	Total	GiftWrapping	Status
1	Mary	mary.smith@gmail.com	100	1	not
	Smith				shipped
2	Patricia	pjohnson@yahoo.com	200	0	shipped
	Johnson				
3	Elizabeth	elizabethbrown@aol.com	125	0	shipped
	Brown				

Notes: In the giftwrapping column, 1 means the customer wants the order to be wrapped as a gift. 0 means the opposite.

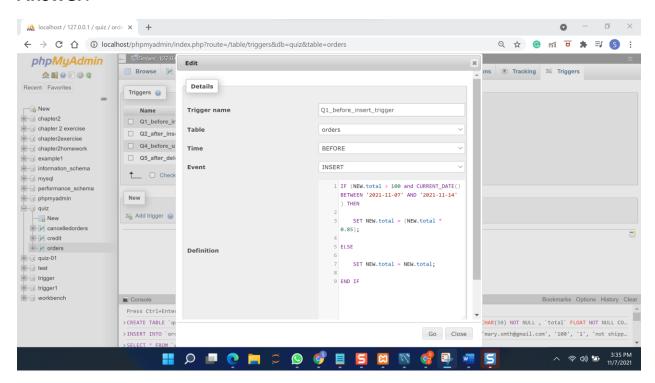


FIG 2: Q1 Before Insert Trigger

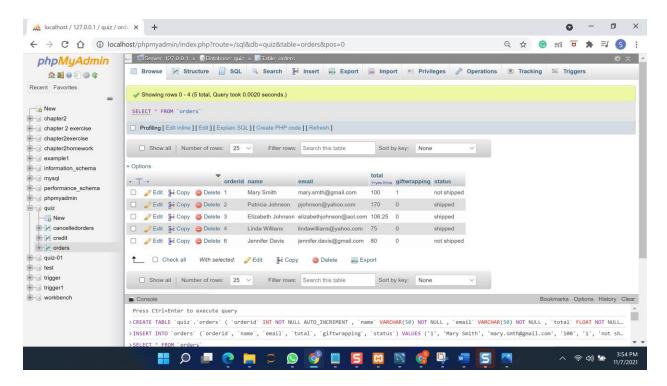


FIG 3: OUTPUT OF QUESTION 1

Question 2: Giftwrapping has always been a free service offered by the company. However, given the challenges of the pandemic, the company would like to offer \$1.50 credit incentive to those customers who did not request a free giftwrapping service. The company would like to automatically record all orders with the giftwrapping zero value in a credit table as shown below. Create the table below.

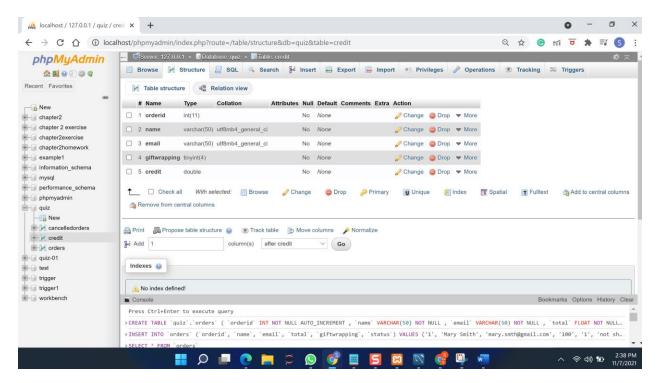


FIG 4: CREDIT TABLE

Next, attach an after insert trigger to the order table to insert the new orders with no giftwrapping into the credit table. Test your after insert trigger by inserting the following records into the orders table. Make sure the credit column displays 1.50 for all records in the credit table in an automated way. (10 points)

OrderID	Name	Email	Total	GiftWrapping	Status
4	Linda	lindawillians@yahoo.com	75	0	shipped
	Williams				
5	Barbara	barbarajones@hotmail.com	90	1	not shipped
	Jones				
6	Jennifer	jennifer.davis@gmail.com	80	0	not shipped
	Davis				

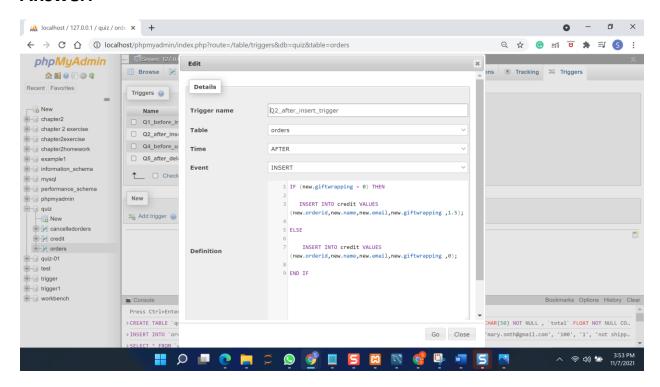


FIG 5: Q2_after_insert_trigger

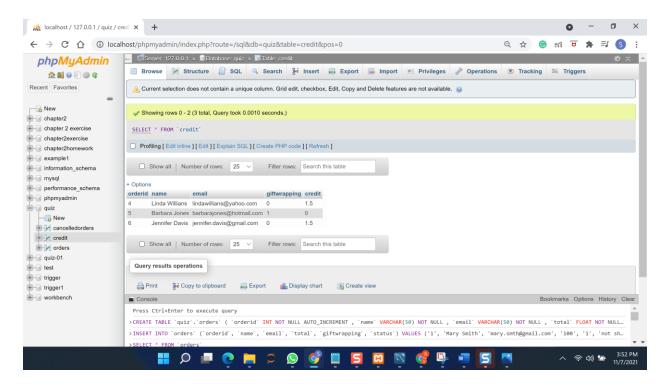


Fig 6: Output of Question 2

Question 3: This is a critical thinking question based on the material covered in class so far. Implement an automated way for the company to calculate the total credit amount per customer. Describe the advantages and potential limitations of your solution. (10 points)

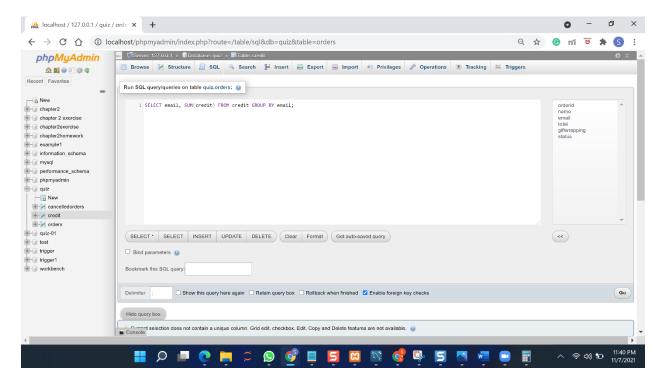


FIG 7: QUERY

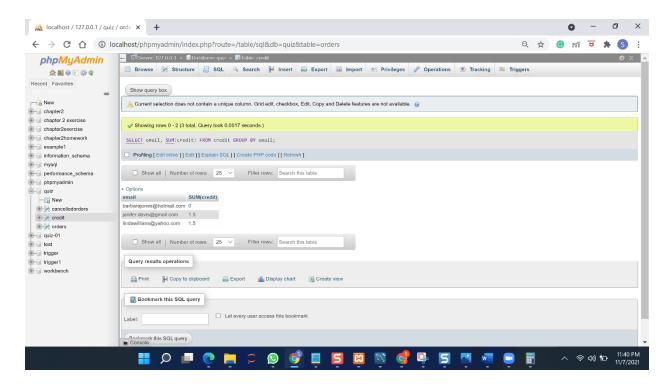


FIG 8: OUTPUT FOR QUESTION 3

Answer the Questions 4 and 5 Below by using MYSQL Workbench Connected to PHPMYADMIN

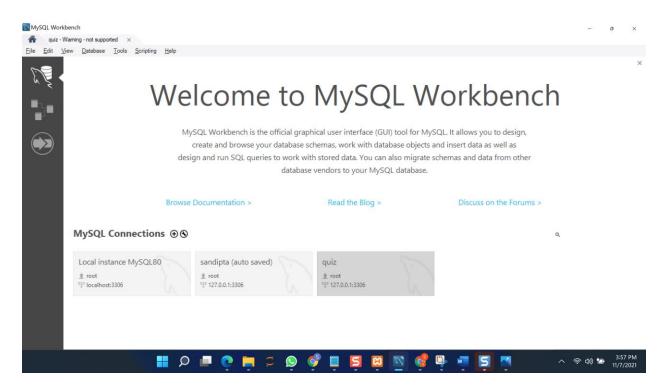


FIG 9: ESTABLISHING CONNECTION BETWEEN THE MySQL AND PHPMYADMIN

Question 4: After hearing about the beautiful free giftwrap from her friend, Linda Williams also wants her order to be wrapped as a gift. However, Linda's order has already been shipped. Attach a before update trigger to the order table to prevent a customer making gift wrapping change request on an already shipped order. Display the following error message to a customer: "The order is already on its way!" (20 points)

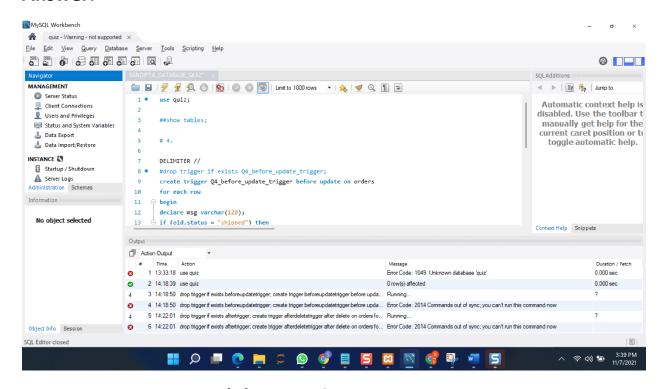


FIG 10(A): Q4_before_update_trigger

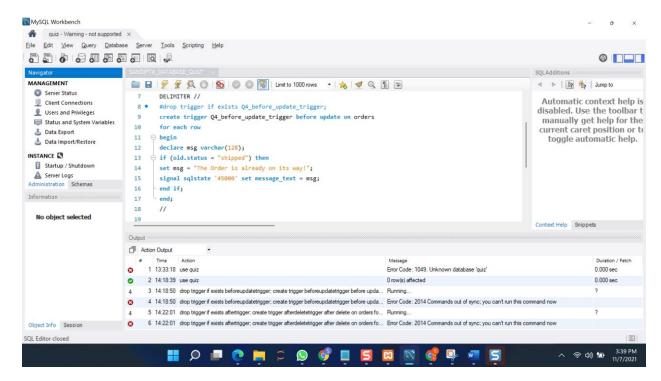


FIG 10(B)

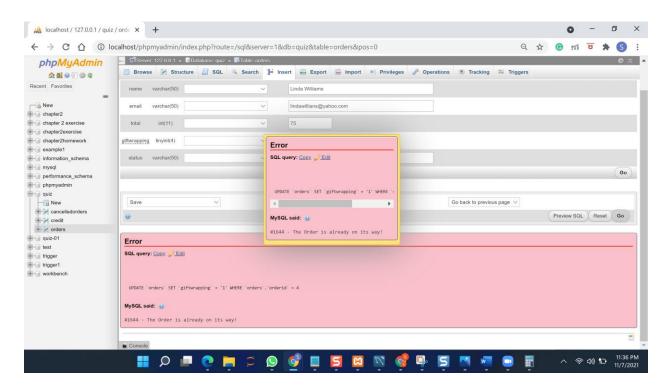


FIG 11: OUTPUT OF QUESTION 4

Question 5: The company would like to record all cancelled orders in the cancelledorder table shown below. Create the table below.

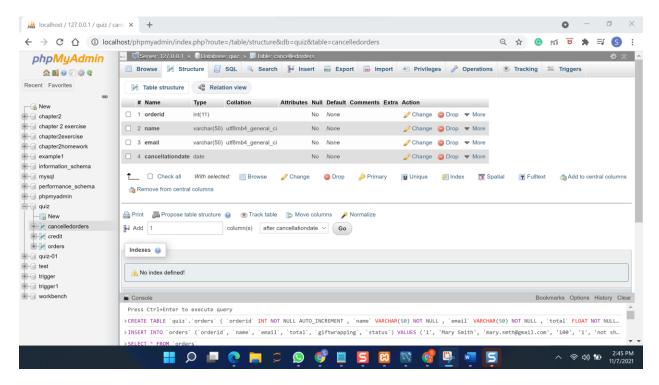


FIG 12: CANCELLATIONORDER

Barbara Jones decided to cancel her order. Attach an after delete trigger on the orders table to automatically record all orders deleted by customers in the cancelledorder table. (20 points)

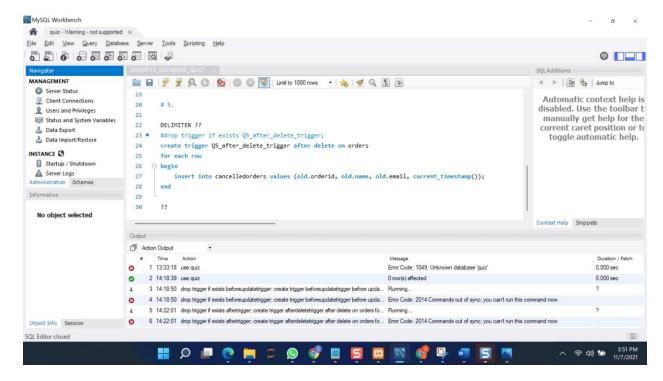


FIG 13: Q5_after_delete_trigger

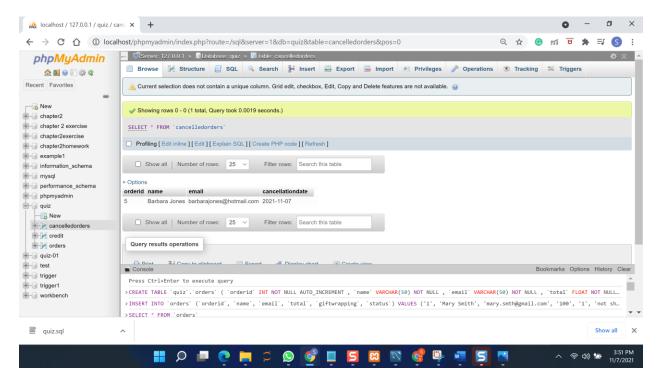


FIG 14: OUTPUT OF QUESTION 5

Question 6: Create a five minute long screen capture video (Youtube videos are not accepted!) that demonstrates and explains how you built your triggers and how they work. Explain what problems you faced and how you resolved them. (20 points).

Answer: Screen Capture Video is done and also attached the screenshot of every question query and expected output in this file.

Also, I have attached the PHPMYADMIN (Named as quiz) and MySQL QUERY file (Named as SANDIPTA_DATABASE_QUIZ) in Folder.