

Advanced Databases - CA2 - Chad Malone Murphy

QUESTION 1

My function fnEarliestUnpaidDate appears to work correctly when tested. To test this function I first queried the database with the following script :

```
SELECT VendorID, MIN(InvoiceDate) FROM Invoices  
WHERE (InvoiceTotal-PaymentTotal) > 0  
GROUP BY VendorID ;
```

This displayed a result set of all unpaid invoices with the earliest date for each VendorID. From this I was able to run the function various times passing in sample Vendor IDs and cross reference the result with the result set of the first script.

eg

```
DECLARE @answer DATE;  
SET @answer = dbo.fnEarliestUnpaidDate(80);  
PRINT @answer ;
```

I only encountered a minor issue regarding how to write the main sql statements of the script as there was a number of different ways to achieve the same result. However, I believe I have written it in the least verbose way.

QUESTION 2

My database trigger appears to work fine when tested with a simple update statement on the Vendors table. Note that the new account number must exist in the GL_Accounts table or else it will throw an error as it is a foreign key here.

QUESTION 3

My stored procedure script appears to function correctly. I tested it by executing the procedure both with a valid InvoiceID and manually checking the result by querying the affected tables before and after and with an invalid InvoiceID to ensure the correct error messages were being thrown.

