**DML - Update Delete Merge**

Update colors

Set ColorName = 'Camo', ColorNumber = 999

Where ID = 1;

UPDATE InvoiceCopy

SET TermsID = 1

FROM InvoiceCopy JOIN VendorCopy ON InvoiceCopy.VendorID = VendorCopy.VendorID

WHERE VendorName = 'Pacific Bell';

UPDATE InvoiceCopy

SET CreditTotal = CreditTotal + 100

FROM

(

SELECT TOP 10 InvoiceID FROM InvoiceCopy

WHERE InvoiceTotal - PaymentTotal – CreditTotal >= 100

ORDER BY InvoiceTotal – PaymentTotal – CreditTotal DESC

) AS TopInvoices

WHERE InvoiceCopy.InvoiceID = TopInvoices.InvoiceID;

DELETE InvoiceCopy

WHERE InvoiceID = 115;

MERGE InvoiceArchive AS ia

USING InvoiceCopy AS ic

ON ic.InvoiceID = ia.InvoiceID

WHEN MATCHED AND ic.PaymentDate IS NOT NULL AND

ic.PaymentTotal > ia.PaymentTotal THEN

UPDATE SET

ia.PaymentTotal = ic.PaymentTotal,

ia.CreditTotal = ic.CreditTotal,

ia.PaymentDate = ic.PaymentDate

WHEN NOT MATCHED THEN

INSERT (InvoiceID, VendorID, InvoiceNumber, InvoiceTotal, PaymentTotal,

CreditTotal, TermsID, InvoiceDate, InvoiceDueDate)

VALUES (ic.InvoiceID, ic.VendorID, ic.InvoiceNumber, ic.InvoiceTotal,

ic.PaymentTotal, ic.CreditTotal, ic.TermsID, ic.InvoiceDate, ic.InvoiceDueDate)

WHEN NOT MATCHED BY SOURCE THEN

DELETE;

1NF no repeating columns

no duplicated rows

one value on one field

2NF no partial dependencies

no composite primary key

3NF no transitive dependencies