Q1)calculate the Covariance for the provided stock dataset

select a.STOCK\_SYMBOL, b.STOCK\_SYMBOL, month(a.STOCK\_DATE),

(AVG(a.STOCK\_PRICE\_HIGH\*b.STOCK\_PRICE\_HIGH) –(AVG(a.STOCK\_PRICE\_HIGH)\*AVG(b.STOCK\_PRICE\_HIGH))) from NYSE a join NYSE b on a.STOCK\_DATE=b.STOCK\_DATE where a.STOCK\_SYMBOL<b.STOCK\_SYMBOL and year(a.STOCK\_DATE)=2008

Group by a.STOCK\_SYMBOL, b. STOCK\_SYMBOL, month(a.STOCK\_DATE);