## Psaudo code for the exercise (slide 20)

//key: row number

//val: a tuple of the sort (Timestamp, Product ID…)

def map (key, val):

emit( (Customer ID, month(Timestamp)), Price Paid )

//key: a pair of the type (Customer ID, month)

//val\_list: a list of prices paid (associated with that customer ID and month)

def reduce (key, val\_list):

emit ( key, sum(val\_list) )