c)

Since no indexes available, for join operation, a block-based nested loop join should be applied. We can push the selection directly to the Order, which means the equivalent query should be $\left(\sigma_{ShipDate\ :today} Order\right) \bowtie Inventory$. For selection part, linear search is required since no index available.

I/O cost:

For $\sigma_{ShipDate=:today} Order$: $B(Order) = \frac{60000}{10} = 6000$

Assume the ShipDate is uniformly distributed over its range, and the range is from :today to :today-999

Then $\left|\sigma_{ShipDate=:today} Order\right| = \frac{6000}{1000} = 6$

For block-based nested loop join part, the cost is $6 + \frac{6}{8-2} \times \frac{40000}{10} = 4006$