# **Queries and Doubts**

1. What is filler data?

Ans: dummy data

1. can we use news data or other data other than book and trade data?

Ans: No because we do not know the exact time! time\_id is *shuffled*

1. why do some stocks miss data or their analysis in graphs is not showing?

Ans: Those stocks have missing data.

1. When calculating realised volatility did you first ffill for the missing seconds in book data?

Ans: Actually, forward fill does not affect the volatility calculation because log (s\_t2/s\_t1) = log(1) = 0 in the ffill period. Prices/WAP remain the same. It doesn't affect volatility.

1. Are the bid\_price1 and bid\_price1 from different time\_ids and stocks comparable? E.g. if bid\_price1 = 0.9 in stock\_id = 10 and time\_id = 5 equal to bid\_price1 = 0.9 in stock id = 20 and time\_id = 11 equal? Similar question for ask\_price1 ?
   1. Is the price in book data and trade data comparable? Have they been normalised together or separately. If normalised together then they are comparable if separately then they are NOT comparable.

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