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Measure	Formula
COUNT_ TRAJECTORIES	count all distinct trajectory ids that pass through base cell (bc)
COUNT_USERS	count all the distinct object ids that pass through bc
AVG_DISTANCE_ TRAVELED	$AVG_DISTANCE_TRAVELED(bc) = \frac{SUM_DISTANCE(bc)}{COUNT_TRAJECTORIES(bc)}$ $SUM_DISTANCE(bc) = \sum_{TP_i \in bc} len(TP_i)$
AVG_TRAVEL_ DURATION	$\begin{aligned} AVG_TRAVEL_DURATION(bc) = \frac{SUM_DURATION(bc)}{COUNT_TRAJECTORIES(bc)} \\ SUM_DURATION(bc) = \sum_{TP_{i} = bc} lifespan(TP_i) \end{aligned}$
AVG_SPEED	$\begin{aligned} AVG_SPEED(bc) &= \frac{SUM_SPEED(bc)}{COUNT_TRAJECTORIES(bc)}\\ SUM_SPEED(bc) &= \sum_{TP_i \in bc} \frac{len(TP_i)}{lifespan(TP_i)} \end{aligned}$
AVG_ABS_ ACCELER	$AVG_ABS_ACCELER(bc) = \frac{SUM_ABS_ACCELER(bc)}{COUNT_TRAJECTORIES(bc)}$ $SUM_ABS_ACCELER(bc) = \sum \frac{ speed_{fin}(TP_i) - speed_{init}(TP_i) }{ speed_{fin}(TP_i) - speed_{init}(TP_i) }$











































































































































