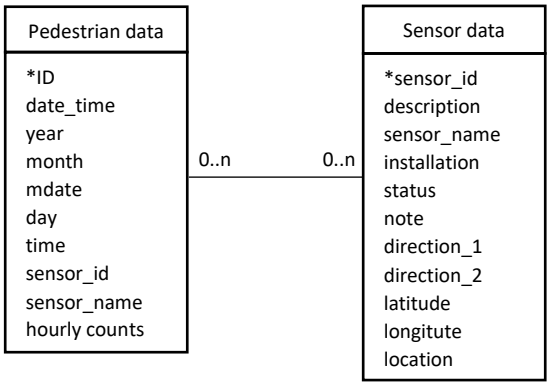
Approach

Step 1: **Combine data**

➔ from 2 tables into 1 (i.e. merge on sensor_id)



Step 2: **Reformat "date_time" column**

➔ Strip the time from the date_time column for daily counts and also day for monthly counts

Step 2: **Accumulate pedestrian data**

$dates = d_1 \dots d_n$
$sensors = s_1 \dots s_n$

for $i = 1 \rightarrow n$: $\Rightarrow$ $O(n)$
  for $j = 1 \rightarrow n$: $\Rightarrow$ $O(n)$
    push. (**sum**($all\ data\ for\ one\ sensor\ for\ each\ day$))

➔ $O(n^2)$

This algorithm could have been done in reverse order but due to the fact that we want top 10 for each date / month the loop does not need to be repeated if it is done this way.

Architecture