1. I fought this problem forever because I couldn’t figure out a way to query each DB to just return the median for that set.

For example, this query would return the median from a hypothetical ‘values’ column

SET @rowindex := -1;

SELECT

   AVG(v.value)

FROM

   (SELECT @rowindex:=@rowindex + 1 AS rowindex,

           values.value AS value

    FROM values

    ORDER BY values.value) AS v

WHERE

g.rowindex IN (FLOOR(@rowindex / 2) , CEIL(@rowindex / 2));