1. What’s the total sales amount by designated market area (DMA)? List the name (not the id) and total sales amount for each DMA.

select name,sum(amount) as total from dmas inner join sales on dmas.id = sales.dma\_id group by name order by sum(amount)

2. Average Order Value (AOV) is defined as sales.amount divided by transactions.transaction\_count. List the name (not the id) and

average order value for each DMA on January 1st, 2019.

Order the result set from highest average order value to lowest.

select b.name, sum\_amount/transaction\_count as aov

from (

select date,dmas.id,name,sum(amount) sum\_amount

from dmas

inner join sales

on dmas.id = sales.dma\_id

group by date,dmas.id,name

) b

join transactions t

on b.id = t.dma\_id and t.date = b.date

where t.date = '2019-01-01'

group by b.name,sum\_amount/transaction\_count

order by sum\_amount/transaction\_count desc

3. For each DMA, calculate the average, lowest, and highest sales.amount for the month of January 2019.

List the name (not the id), average sales amount, minimum sales amount, and maximum sales amount for each DMA.

select name, avg(amount),min(amount),max(amount)

from sales s

join dmas d

on d.id = s.dma\_id

where date < '2019-02-01' --month of January 2019.

group by name

4. Seems like something may be wrong with the data in our visits table.

For the month of February 2019, list the name (not the id) and the frequency (count of occurrences where the condition is true)

where a DMA’s visit count is greater than the transaction count. Order by the DMA name.

select name, count(\*) as frequency

from visits v

join transactions t

on v.dma\_id = t.dma\_id AND v.date =t.date

join dmas d

on d.id = t.dma\_id

where v.date between '2019-02-01' and '2019-03-01' and visit\_count > transaction\_count

group by name

order by name

--where a DMA’s visit count is greater than the transaction count