SQL Test – Remote

Questions:
1) **Get 1,000 referenceids and memberids of listings started in the last month**
2) **Now select a list of memberids who listed more than 1 item**
3) **Now select a list of 1,000 memberids who started a listing in the last month**
4) **Restrict this to members who listed a car**
5) **Now restrict this to members who live in Wellington, Hutt Valley, or Porirua**
6) **Now for each member add a count of how many listings they started**
7) **Now for each member add the average StartPrice**
8) **Now for each member add the median number of photos they use on their listings**

Data Sources:
- TradeMeDW.FACT.Listings: this holds information on the listings on the site.
- TradeMeDW.DIMENSION.Categorygroups: this has the categories of listings (join on dimCategoryGroupID)
- TradeMeDW.DIMENSION.MemberType: this holds information on the member at the time of the listing (join on SellerTypeID).

Instructions:
- Provide a query for each question.
- Comment your code to show your thinking.
- If you get stuck, it's better that you make an attempt rather than get it 100% right

Excel Test – Remote

Questions:

1) Freeze panes so that top row is visible.
2) For each listing look up LevelOneCategory and LevelTwoCategory from CategoryGroups sheet and append to Listings sheet data.
3) Now add the Region & AgeGroups from MemberType sheet.
4) Create a pivot table of listings that shows the count of listings by number of photos, and the average start price.
5) Create a chart that shows the above data and comment on what you notice about this chart/data?
6) Provide a count of listings by ListingTypeID using COUNTIF. Hint: there are three unique values for ListingTypeID.
7) Now add Average number of photos by ListingTypeID using AVERAGEIF.

Instructions:

- Use another copy of the same excel file from SQL test.
- Clearly mark your attempts for each question; comments, colour code if needed etc.

Bonus Marks:

1) Create another data visualization(chart/plot) of your own choice with the data
2) Provide a reason why you chose this?
3) Is this interesting? Why is it interesting?
4) Provide comments on your interpretation of the chart